

FIGURE 1A

SEQ ID NO: 2	MAEAEAGGAS-EQDDVSILRTEDVMCMSCATG-----ERVCLAAEGLGNRHCFLENIAAD-KNIPDLSCQCVFVIEQALSVRALQELV
SEQ ID NO: 128	MAEAEAGGAS-EQDDVSFLRTEDMVCLSCATG-----ERVCLAAEFGNHRHCFLENIAAD-KNIPDLSCQCVFVIEQALSVRALQELV
SEQ ID NO: 130	MAEAEAGGAS-EQDDVSFLRTEDMVCLSCATG-----ERVCLAAEFGNHRHCFLENIAAD-KNIPDLSCQCVFVIEQALSVRALQELV
SEQ ID NO: 144	MAEAEAGGAS-EQDDVSFLRTEDMVCLSCATG-----ERVCLAAEFGNHRHCFLENIAAD-KNIPDLSCQCVFVIEQALSVRALQELV
SEQ ID NO: 146	MAEAEAGGAS-EQDDVSFLRTEDMVCLSCATG-----ERVCLAAEFGNHRHCFLENIAAD-KNIPDLSCQCVFVIEQALSVRALQELV
SEQ ID NO: 4	MADSEGGSS--EQDDVSFLRTEDMVCLSCATG-----ERVCLAAEFGNHRHCFLENIAAD-KNIPDLSCQCVFVIEQALSVRALQELV
SEQ ID NO: 6	MADSEGGSS--EQDDVSFLRTEDMVCLSCATG-----ERVCLAAEFGNHRHCFLENIAAD-KNIPDLSCQCVFVIEQALSVRALQELV
SEQ ID NO: 8	MADSEGGSS--EQDDVSFLRTEDMVCLSCATG-----ERVCLAAEFGNHRHCFLENIAAD-KNIPDLSCQCVFVIEQALSVRALQELV
SEQ ID NO: 10	MAEAEAGGSS--EQDDVSFLRTEDMVCLSCATG-----ERVCLAAEFGNHRHCFLENIAAD-KNIPDLSCQCVFVIEQALSVRALQELV
SEQ ID NO: 56	MAEAEAGGSS--EQDDVSFLRTEDMVCLSCATG-----ERVCLAAEFGNHRHCFLENIAAD-KNIPDLSCQCVFVIEQALSVRALQELV
SEQ ID NO: 57	-----DMVCLSCATG-----ERVCLAAEFGNHRHCFLENIAAD-KNIPDLSCQCVFVIEQALSVRALQELV
SEQ ID NO: 58	MADKEEQGGGEQDDVSFLRTGDIVCLSCVASHNRDGVLSERVCLCTEGFGNRMCTLENVSD-KDIPPDIAMCMLYIDNALSMLRALQEMM
SEQ ID NO: 59	-MASQDAE---DEVSFRLRTGDQINLVCS--QS---LGHVLLGAEGFGNRCNVCLEEASN-QNVPPDLSCVFLNQALSVRALQEMV
SEQ ID NO: 60	MADAGEGE---DEIQFLRTDDEVVLQCTATIHKE---QQKLCIAAEGFGNRLCFLESTNSKNVPPDLSCICTFVLEQSLSVRALQEML
SEQ ID NO: 61	MADGGEGE---DEIQFLRTDDEVVLQCTATIHKE---QQKLCIAAEGFGNRLCFLESTNSKNVPPDLSCICTFVLEQSLSVRALQEML
SEQ ID NO: 62	MADGGEGE---DEIQFLRTDDEVVLQCTATIHKE---QQKLCIAAEGFGNRLCFLESTNSKNVPPDLSCICTFVLEQSLSVRALQEML

SEQ ID NO: 2	TAAGSETGKE-----NLGKGTSGYRRTLLYGNAILLRHLNSDMYLACLSTSSSQDKLAFDVGLQHSQGEACWTLHPASKQRSEGE
SEQ ID NO: 128	TAAGSETG-----KGTSGGHRRTLLYGNAILLRHLNSDMYLACLSTSSSQDKLAFDVGLQHSQGEACWTLHPASKQRSEGE
SEQ ID NO: 130	TAAGSETG-----KGTSGGHRRTLLYGNAILLRHLNSDMYLACLSTSSSQDKLAFDVGLQHSQGEACWTLHPASKQRSEGE
SEQ ID NO: 144	TAAGSETGKE-----NLGKGTSGGHRRTLLYGNAILLRHLNSDMYLACLSTSSSQDKLAFDVGLQHSQGEACWTLHPASKQRSEGE
SEQ ID NO: 146	TAAGSETGKE-----NLGKGTSGGHRRTLLYGNAILLRHLNSDMYLACLSTSSSQDKLAFDVGLQHSQGEACWTLHPASKQRSEGE
SEQ ID NO: 4	TAASSQEG-----KGTSGGHRRTLLYGNAILLRHQNSDMYLACLSTSSSNDKLSFDVGLQHSQGEACWTVHPASNQRSEGE
SEQ ID NO: 6	TATSSQEG-----KGTSGGHRRTLLYGNAILLRHQNSDMYLACLSTSSSNDKLSFDVGLQHSQGEACWTVHPASNQRSEGE
SEQ ID NO: 8	TAAGSEGE-----KG-TGSGGHRRTLLYGNAILLRHQNSDMYLACLSTSSSNDKLSFDVGLQHSQGEACWTVHPASNQRSEGE
SEQ ID NO: 10	TAAGSETG-----KGTSGGHRRTLLYGNAILLRHNSDMYLACLSTSSSNDKLSFDVGLQHSQGEACWTVHPASNQRSEGE
SEQ ID NO: 56	TAAGSETG-----KGTSGGHRRTLLYGNAILLRHNSDMYLACLSTSSSNDKLSFDVGLQHSQGEACWTVHPASNQRSEGE
SEQ ID NO: 57	TAAGSETG-----KGTSGGHRRTLLYGNAILLRHNSDMYLACLSTSSSNDKLSFDVGLQHSQGEACWTVHPASNQRSEGE
SEQ ID NO: 58	SADSDHKS-----ASGAGGHKTLTYGHAVALKQHVQSEMYLACLSSC-SNDKLSFDVGLQESTQGEACWTVHPASNQRSEGE
SEQ ID NO: 59	ITDQIDQGGQ-----AGHRTLLYGHAMLLQHSLSMHMLACLPTSSSKDKLAFDVGLQESTQGEACWTVHPASNQRSEGE
SEQ ID NO: 60	ANTVEKSEGQVDVEKWFMMKTAQGGGHRRTLLYGHAILLRHSYSGMYLCCCLSTSRSSSTDKLAFDVGLQEDTTGEACWTVHPASNQRSEGE
SEQ ID NO: 61	ANTVEKSEGQVDVEKWFMMKTAQGGGHRRTLLYGHAILLRHSYSGMYLCCCLSTSRSSSTDKLAFDVGLQEDTTGEACWTVHPASNQRSEGE
SEQ ID NO: 62	ANTVEKSEGQVDVEKWFMMKTAQGGGHRRTLLYGHAILLRHSYSGMYLCCCLSTSRSSSTDKLAFDVGLQEDTTGEACWTVHPASNQRSEGE

FIGURE 1B

SEQ ID NO:2	EKRVGDDLLILSVVAIERYLHTTKE--NEVSIVNASFHVTHWSVQPYGTG-----ISRMKYVGVYFGGDVLRFFFHG-GDECLTI
SEQ ID NO:128	EKRVGDDLLILSVVATERYLHTTKE--NEVSIVNASFHVTHWSVQPYGTG-----ISRMKYVGVYFGGDVLRFFFHG-GDECLTI
SEQ ID NO:130	EKRVGDDLLILSVVATERYLHTTKE--NEVSIVNASFHVTHWSVQPYGTG-----ISRMKYVGVYFGGDVLRFFFHG-GDECLTI
SEQ ID NO:144	EKRVGDDLLILSVVATERYLHTTKE--NEVSIVNASFHVTHWSVQPYGTG-----ISRMKYVGVYFGGDVLRFFFHG-GDECLTI
SEQ ID NO:146	EKRVGDDLLILSVVATERYLHTTKE--NEVSIVNASFHVTHWSVQPYGTG-----ISRMKYVGVYFGGDVLRFFFHG-GDECLTI
SEQ ID NO:4	EKRVGDDLLILSVVATERYLHTTKE--NEVSIVNASFHVTHWSVQPYGTG-----ISRMKYVGVYFGGDVLRFFFHG-GDECLTI
SEQ ID NO:6	EKRVGDDLLILSVVATERYLHTAKE--NELSVNASFHVTHWSVQPYGTG-----ISRMKYVGVYFGGDVLRFFFHG-GDECLTI
SEQ ID NO:8	EKRVGDDLLILSVVATERYLHTAKE--NELSVNASFHVTHWSVQPYGTG-----ISRMKYVGVYFGGDVLRFFFHG-GDECLTI
SEQ ID NO:10	EKRVGDDLLIPSVVATERYLHTTKE--NDLSIVNASFHVTHWSVQPYGTG-----ISRMKYVGVYFGGDVLRFFFHG-GDECLTI
SEQ ID NO:56	EKRVGDDLLILSVVATERYLHTTKE--NEQSIVNASFHVTHWSVQPYGTG-----ISRMKYVGVYFGGDVLRFFFHG-GDECLTI
SEQ ID NO:57	EKRVGDDLLILSVVATERYLHTTKE--NDLSIVNASFHVTHWSVQPYGTG-----ISRMKYVGVYFGGDVLRFFFHG-GDECLTI
SEQ ID NO:58	EKRVGDDVILSVVATERYLHTTKE--KGYMVIASFHQTLNIIQSVSSG-----SMRTRNMGFLFGNDVLRFLFHG-NDECLTI
SEQ ID NO:59	EKRVGDDLLILVNATERYLHLVSERDDQPMIVVASFQQTILVTVAPVSSGIVIKAMAKKYGDTEKVLGFLNGLDTLRFSRGHMDEYLTIV
SEQ ID NO:60	EKRVGDDLLILSVSSERYLHLSYG--NSSWHVDAAAFQQTILSVAPISS-----GSEAAQGYLIGGDVLRLLHGHMDECLTV
SEQ ID NO:61	EKRVGDDLLILSVSSERYLHLSYG--NGSLHVDAAAFQQTILSVAPISS-----GSEAAQGYLIGGDVLRLLHGHMDECLTV
SEQ ID NO:62	EKRVGDDLLILSVSSERYLHLSYG--NGSLHVDAAAFQQTILSVAPISS-----GSEAAQGYLIGGDVLRLLHGHMDECLTV
SEQ ID NO:2	P-STWTKDGGQNIIVYKGGVMSQARSLRLELARTKWAGGFINWYHPMRIRHITTTGRYLGVDQNELYLVSRREEPTTASCAFLRQEKD
SEQ ID NO:128	P-STWTKDGGQNIIVYEGGVSMSQARSLRLELARTKWAGGFINWYHPMRIRHITTTGRYLGVDQNELYLVSRREEATTASCAFLRQEKD
SEQ ID NO:130	P-STWTKDGGQNIIVYEGGVSMSQARSLRLELARTKWAGGFINWYHPMRIRHITTTGRYLGVDQNELYLVSRREEATTASCAFLRQEKD
SEQ ID NO:144	P-STWTKDGGQNIIVYEGGVSMSQARSLRLELARTKWAGGFINWYHPMRIRHITTTGRYLGVDQNELYLVSRREEATTASCAFLRQEKD
SEQ ID NO:146	P-STWTKDGGQNIIVYEGGVSMSQARSLRLELARTKWAGGFINWYHPMRIRHITTTGRYLGVDQNELYLVSRREEATTASCAFLRQEKD
SEQ ID NO:4	P-SSWSNVSGQNIIVYEGGVSMSQARSLRLELARTKWAGGFINWYHPMRIRHITTTGRYLGVDQNELYLVSRREEATTASSTFFLRQEKD
SEQ ID NO:6	P-STWSNVSGQNIIVYEGGVSMSQARSLRLELARTKWAGGFINWYHPMRIRHITTTGRYLGVDQNELYLVSRREEATTASSTFFLRQEKD
SEQ ID NO:8	P-STWSEAPGQNIIVYEGGVSMSQARSLRLELARTKWAGGFINWYHPMRIRHITTTGRYLGVDQNELYLVSRREEATTASSTFFLRQEKD
SEQ ID NO:10	P-STWGREAGQNIIVYEGGVMAQARSLRLELARTKWAGGFINWYHPMRIRHITTTGRYLGVDQNELYLVSRREEATTASSTFFLRQEKD
SEQ ID NO:56	P-STWGREAGQNIIVYEGGVMAQARSLRLELARTKWAGGFINWYHPMRIRHITTTGRYLGVDQNELYLVSRREEATTASSTFFLRQEKD
SEQ ID NO:57	P-STWSLDGQNIIVYEGGVSMSQARSLRLELARTKWAGGFINWYHPMRIRHITTTGRYLGVDQNELYLVSRREEATTASSTFFLRQEKD
SEQ ID NO:58	P-ENWSEHPQHNMVIYEGGAAVTQARSLRLELARTKWAGGFINWYHPMRIRHITTTGRYLGVDQNELYLVSRREEATTASSTFFLRQEKD
SEQ ID NO:59	PPVCKDDDDNISEVSYDTGAVAQVARSLSRAELILKKWNGSVSVSWGPPCIRHILTSRGYLAVENTGTVIVPRKSCNLDDTIFCFQOQRE
SEQ ID NO:60	P-SGEHGEQRRTVHYEGGAVSVHARSLSRLRLETLRVAVSGSHIRWGQPFRLRHVTTGKYLMSMEDKNLLMLMDKEKADVKSTAFAPRSKE
SEQ ID NO:61	P-SGEHGEQRRTVHYEGGAVSVHARSLSRLRLETLRVAVSGSHIRWGQPFRLRHVTTGKYLMSMEDKNLLMLMDKEKADVKSTAFAPRSKE
SEQ ID NO:62	P-SGEHGEQRRTVHYEGGAVSVHARSLSRLRLETLRVAVSGSHIRWGQPFRLRHVTTGKYLMSMEDKNLLMLMDKEKADVKSTAFAPRSKE

FIGURE 1C

SEQ ID NO: 2	DQKQVLEDKDLEIVIGAPIIKYGDSTVIVQHSETGLWLSYKSYETKKKGVGKVEEKQAILHEEGKMDDGLDLSRSQEEEEMTARVIRKCSS
SEQ ID NO: 128	DQKQVLEDKDLEIVIGAPIIKYGDSTVIVQHSETGLWLSYKSYETKKKGVGKVEEKQAILHEEGKMDDGLDLSRSQEEEEMTARVIRKCSS
SEQ ID NO: 130	DQKQVLEDKDLEIVIGAPIIKYGDSTVIVQHSETGLWLSYKSYETKKKGVGKVEEKQAILHEEGKMDDGLDLSRSQEEEEMTARVIRKCSS
SEQ ID NO: 144	DQKQVLEDKDLEIVIGAPIIKYGDSTVIVQHSETGLWLSYKSYETKKKGVGKVEEKQAILHEEGKMDDGLDLSRSQEEEEMTARVIRKCSS
SEQ ID NO: 146	DQKQVLEDKDLEIVIGAPIIKYGDSTVIVQHSETGLWLSYKSYETKKKGVGKVEEKQAILHEEGKMDDGLDLSRSQEEEEMTARVIRKCSS
SEQ ID NO: 4	DQKQVLEDKDLEIVIGAPIIKYGDSTVIVQHSETGLWLSYKSYETKKKGVGKVEEKQAILHEEGKMDDGLDLSRSQEEEEMTARVIRKCSS
SEQ ID NO: 6	DQKQVLEDKDLEIVIGAPIIKYGDSTVIVQHSETGLWLSYKSYETKKKGVGKVEEKQAILHEEGKMDDGLDLSRSQEEEEMTARVIRKCSS
SEQ ID NO: 8	DQKQVLEDKDLEIVIGAPIIKYGDSTVIVQHSETGLWLSYKSYETKKKGVGKVEEKQAILHEEGKMDDGLDLSRSQEEEEMTARVIRKCSS
SEQ ID NO: 10	DEKQVLEDKDLEIVIGAPIIKYGDSTVIVQHSETGLWLSYKSYETKKKGVGKVEEKQAILHEEGKMDDGLDLSRSQEEEEMTARVIRKCSS
SEQ ID NO: 56	DEKQVLEDKDLEIVIGAPIIKYGDSTVIVQHSETGLWLSYKSYETKKKGVGKVEEKQAILHEEGKMDDGLDLSRSQEEEEMTARVIRKCSS
SEQ ID NO: 57	DQKQVLEDKDLEIVIGAPIIKYGDSTVIVQHSETGLWLSYKSYETKKKGVGKVEEKQAILHEEGKMDDGLDLSRSQEEEEMTARVIRKCSS
SEQ ID NO: 58	PKKQVLEDKDLEIVIGAPIIKYGDSTVIVQHSETGLWLSYKSYETKKKGVGKVEEKQAILHEEGKMDDGLDLSRSQEEEEMTARVIRKCSS
SEQ ID NO: 59	D-LANYDSKQDHGMSADIKYGDSTVIVQHSETGLWLSYKSYETKKKGVGKVEEKQAILHEEGKMDDGLDLSRSQEEEEMTARVIRKCSS
SEQ ID NO: 60	K-LDVGVRKEVDGMTSEIKYGDSTVIVQHSETGLWLSYKSYETKKKGVGKVEEKQAILHEEGKMDDGLDLSRSQEEEEMTARVIRKCSS
SEQ ID NO: 61	K-LDVGVRKEVDGMTSEIKYGDSTVIVQHSETGLWLSYKSYETKKKGVGKVEEKQAILHEEGKMDDGLDLSRSQEEEEMTARVIRKCSS
SEQ ID NO: 62	K-LDVGVRKEVDGMTSEIKYGDSTVIVQHSETGLWLSYKSYETKKKGVGKVEEKQAILHEEGKMDDGLDLSRSQEEEEMTARVIRKCSS
SEQ ID NO: 2	LFTKQFINGLETQ-ENRRHSMFFASVNLGEMVMCLEDLTNYFAQPDDEMEHEEKQKFRALNRQDLFQEEGILNLI LEAIDKINVTQ
SEQ ID NO: 128	LFTKQFINGLETQ-ENRRHSMFFASVNLGEMVMCLEDLTNYFAQPDDEMEHEEKQKFRALNRQDLFQEEGILNLI LEAIDKINVTQ
SEQ ID NO: 130	LFTKQFINGLETQ-ENRRHSMFFASVNLGEMVMCLEDLTNYFAQPDDEMEHEEKQKFRALNRQDLFQEEGILNLI LEAIDKINVTQ
SEQ ID NO: 144	LFTKQFINGLETQ-ENRRHSMFFASVNLGEMVMCLEDLTNYFAQPDDEMEHEEKQKFRALNRQDLFQEEGILNLI LEAIDKINVTQ
SEQ ID NO: 146	LFTKQFINGLETQ-ENRRHSMFFASVNLGEMVMCLEDLTNYFAQPDDEMEHEEKQKFRALNRQDLFQEEGILNLI LEAIDKINVTQ
SEQ ID NO: 4	LFTQFISGLENLQ-SNRRSSLFCSFVNLNEMVMCLEDLTNYFAQPDDEMEHEEKQKFRALNRQDLFQEEGILNLI LEAIDKINVTQ
SEQ ID NO: 6	LFTQFISGLENLQ-SNRRSSLFCSFVNLNEMVMCLEDLTNYFAQPDDEMEHEEKQKFRALNRQDLFQEEGILNLI LEAIDKINVTQ
SEQ ID NO: 8	LFTQFIRGLETQ-VNRRHSLFCATVNLNEMVMCLEDLTNYFAQPDDEMEHEEKQKFRALNRQDLFQEEGILNLI LEAIDKINVTQ
SEQ ID NO: 10	LFTQFIRGLETQ-SNRRHSIFQKVNLMNEMVMCLEDLTNYFAQPDDEMEHEEKQKFRALNRQDLFQEEGILNLI LEAIDKINVTQ
SEQ ID NO: 56	LFTQFIRGLETQ-SNRRHSIFQKVNLMNEMVMCLEDLTNYFAQPDDEMEHEEKQKFRALNRQDLFQEEGILNLI LEAIDKINVTQ
SEQ ID NO: 57	LFTQFISGLETQ-ENRRHSIFQKVNLMNEMVMCLEDLTNYFAQPDDEMEHEEKQKFRALNRQDLFQEEGILNLI LEAIDKINVTQ
SEQ ID NO: 58	VLNKFLKGIDALQLE-GNQSTWTRVNLNEMVMCLEDLTNYFAQPDDEMEHEEKQKFRALNRQDLFQEEGILNLI LEAIDKINVTQ
SEQ ID NO: 59	LFNQFFDALDLSRGEKEDQALWNSFNLSSVVDILEDLIEYFGEPEDEDEHEEKQKFRALNRQDLFQEEGILNLI LEAIDKINVTQ
SEQ ID NO: 60	LFNRFIRGLDALS--KVKLPTIDLPYESVLSLQDLIGYFPPPEDEDEHEEKQKFRALNRQDLFQEEGILNLI LEAIDKINVTQ
SEQ ID NO: 61	LFNRFIRGLDALS--KKAKASSVDLPYESVLSLQDLIGYFPPPEDEDEHEEKQKFRALNRQDLFQEEGILNLI LEAIDKINVTQ
SEQ ID NO: 62	LFNRFIRGLDALS--KKAKASTVDLPYESVLSLQDLIGYFPPPEDEDEHEEKQKFRALNRQDLFQEEGILNLI LEAIDKINVTQ

FIGURE 1D

SEQ ID NO: 2	GFLAGLAGDESGQSWEMISGYLYQLLAAIIKGNHTNCAQFANSRNFNWLFSRLGSQASGEGTGMLDVLHCVLIDLSPEALNMMRDEHIKV
SEQ ID NO: 128	GFLAGLAGDESGQSWEMISGYLYQLLAAIIKGNHTNCAQFANSRNLNWLFSRLGSQASGEGTGMLDVLHCVLIDLSPEALNMMRDEHIKV
SEQ ID NO: 130	GFLAGLAGDESGQSWEMISGYLYQLLAAIIKGNHTNCAQFANSRNLNWLFSRLGSQASGEGTGMLDVLHCVLIDLSPEALNMMRDEHIKV
SEQ ID NO: 144	GFLAGLAGDESGQSWEMISGYLYQLLAAIIKGNHTNCAQFANSRNLNWLFSRLGSQASGEGTGMLDVLHCVLIDLSPEALNMMRDEHIKV
SEQ ID NO: 146	GFLAGLAGDESGQSWEMISGYLYQLLAAIIKGNHTNCAQFANSRNLNWLFSRLGSQASGEGTGMLDVLHCVLIDLSPEALNMMRDEHIKV
SEQ ID NO: 4	GFVVS-LAGDESGQSWDVISGYLYQLLAAIIKGNHTNCAQFANTNRLNWLFSRLGSQASGEGTGMLDVLHCVLIDLSPEALNMMRDEHIKV
SEQ ID NO: 6	GFVVS-LAGDESGQSWDVISGYLYQLLAAIIKGNHTNCAQFANTNRLNWLFSRLGSQASGEGTGMLDVLHCVLIDLSPEALNMMRDEHIKV
SEQ ID NO: 8	GFLVS-LAGDESGQSWDIISGYLYQLLAAIIKGNHTNCAQFANSRNLNWLFSRLGSQASGEGTGMLDVLHCVLIDLSPEALNMMRDEHIKV
SEQ ID NO: 10	GFLASFLAGDETGQSWDLISTYLYQLLAAIIKGNHTNCAQFANSRNLNWLFSRLGSQASGEGTGMLDVLHCVLIDLSPEALNMMRDEHIKV
SEQ ID NO: 56	GFLASFLAGDETGQSWDLISTYLYQLLAAIIKGNHTNCAQFANSRNLNWLFSRLGSQASGEGTGMLDVLHCVLIDLSPEALNMMRDEHIKV
SEQ ID NO: 57	GFLASFLAGDETGQSWDLISTYLYQLLAAIIKGNHTNCAQFANSRNLNWLFSRLGSQASGEGTGMLDVLHCVLIDLSPEALNMMRDEHIKV
SEQ ID NO: 58	PDFAG-LIGEETHVKEQISTYLYQLLAAIIKGNHTNCAQFASQRLDWLFRSLNQPQSAEG--ILDVLYCVLTESPEALNMMRDEHIKS
SEQ ID NO: 59	RDFAA-IVGEDAGDLWQDIVTYLYQLLAAIIKGNHTNCAQFASQRLDWLFRSLNQPQSAEG--ILDVLYCVLTESPEALNMMRDEHIKS
SEQ ID NO: 60	AHFAD-VAGREAGESWKSILNSLYELLAALIRGNRKNCAQFSG--SLDWLISRLELEASSG--ILEVLHCVLVESPEALNIIKEGHIKS
SEQ ID NO: 61	AHFAD-VAGREAGESWKSILNSLYELLAALIRGNRKNCAQFSG--SLDWLISRLELEASSG--ILEVLHCVLVESPEALNIIKEGHIKS
SEQ ID NO: 62	AHFAD-VAGREAGESWKSILNSLYELLAALIRGNRKNCAQFSG--SLDWLISRLELEASSG--ILEVLHCVLVESPEALNIIKEGHIKS
SEQ ID NO: 2	IIISLLEKHGRDPKVLVDVLCSLCVGNGVAVRSSQNNICDYLLPGKNLLQTLALVDHVSSVRPNIFVGRVEGSAVYRKWYFEVTMDHIE-KT
SEQ ID NO: 128	IIISLLEKHGRDPKVLVDVLCSLCVGNGVAVRSSQNNICDYLLPGKNLLQTLALVDHVSSVRPNIFVGRVEGSAVYRKWYFEVTMDHIE-KT
SEQ ID NO: 130	IIISLLEKHGRDPKVLVDVLCSLCVGNGVAVRSSQNNICDYLLPGKNLLQTLALVDHVSSVRPNIFVGRVEGSAVYRKWYFEVTMDHIE-KT
SEQ ID NO: 144	IIISLLEKHGRDPKVLVDVLCSLCVGNGVAVRSSQNNICDYLLPGKNLLQTLALVDHVSSVRPNIFVGRVEGSAVYRKWYFEVTMDHIE-KT
SEQ ID NO: 146	IIISLLEKHGRDPKVLVDVLCSLCVGNGVAVRSSQNNICDYLLPGKNLLQTLALVDHVSSVRPNIFVGRVEGSAVYRKWYFEVTMDHIE-KT
SEQ ID NO: 4	IIISLLEKHGRDPKVLVDVLCSLCVGNGVAVRSSQNNICDYLLPGKNLLQTLALVDHVSSVRPNIFVGRVEGSAVYRKWYFEVTMDHIE-KT
SEQ ID NO: 6	IIISLLEKHGRDPKVLVDVLCSLCVGNGVAVRSSQNNICDYLLPGKNLLQTLALVDHVSSVRPNIFVGRVEGSAVYRKWYFEVTMDHIE-KT
SEQ ID NO: 8	IIISLLEKHGRDPKVLVDVLCSLCVGNGVAVRSSQNNICDYLLPGKNLLQTLALVDHVSSVRPNIFVGRVEGSAVYRKWYFEVTMDHIE-KT
SEQ ID NO: 10	VISLLEKHGRDPKVLVDVLCSLCVGNGVAVRSSQNNICDYLLPGKNLLQTLALVDHVSSVRPNIFVGRVEGSAVYRKWYFEVTMDHIE-KT
SEQ ID NO: 56	IIISLLEKHGRDPKVLVDVLCSLCVGNGVAVRSSQNNICDYLLPGKNLLQTLALVDHVSSVRPNIFVGRVEGSAVYRKWYFEVTMDHIE-KT
SEQ ID NO: 57	IIISLLEKHGRDPKVLVDVLCSLCVGNGVAVRSSQNNICDYLLPGKNLLQTLALVDHVSSVRPNIFVGRVEGSAVYRKWYFEVTMDHIE-KT
SEQ ID NO: 58	VISLLEKHGRDPKVLVDVLCSLCVGNGVAVRSSQNNICDYLLPGKNLLQTLALVDHVSSVRPNIFVGRVEGSAVYRKWYFEVTMDHIE-KT
SEQ ID NO: 59	MISQLEKHGRDPKVLVDVLCSLCVGNGVAVRSSQNNICDYLLPGKNLLQTLALVDHVSSVRPNIFVGRVEGSAVYRKWYFEVTMDHIE-KT
SEQ ID NO: 60	IIISLLEKHGRDPKVLVDVLCSLCVGNGVAVRSSQNNICDYLLPGKNLLQTLALVDHVSSVRPNIFVGRVEGSAVYRKWYFEVTMDHIE-KT
SEQ ID NO: 61	IIISLLEKHGRDPKVLVDVLCSLCVGNGVAVRSSQNNICDYLLPGKNLLQTLALVDHVSSVRPNIFVGRVEGSAVYRKWYFEVTMDHIE-KT
SEQ ID NO: 62	IIISLLEKHGRDPKVLVDVLCSLCVGNGVAVRSSQNNICDYLLPGKNLLQTLALVDHVSSVRPNIFVGRVEGSAVYRKWYFEVTMDHIE-KT

FIGURE 1E

SEQ ID NO: 2	THMMPHLRIGWANTTGVPYPPGGGKKGNGVGDDLLSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTVPIINFMFNGVR
SEQ ID NO: 128	THMMPHLRIGWANTTGVPYPPGGGKKGNGVGDDLLSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTVPIINFMFNGVR
SEQ ID NO: 130	THMIPHLRIGWANTTGVPYPPGGGKKGNGVGDDLLSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTVPIINFMFNGVR
SEQ ID NO: 144	THMMPHLRIGWANTTGVPYPPGGGKKGNGVGDDLLSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTVPIINFMFNGVR
SEQ ID NO: 146	THMMPHLRIGWANTTGVPYPPGGGKKGNGVGDDLLSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTVPIINFMFNGVR
SEQ ID NO: 4	THLNPHIRIGWANTAGVYPPGGGKKGNGVGDDLLSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTVPIINFMFNGVR
SEQ ID NO: 6	THLNPHIRIGWANTAGVYPPGGGKKGNGVGDDLLSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTVPIINFMFNGVR
SEQ ID NO: 8	THMTPHLRIGWANTSGVYPPGGGKKGNGVGDDLLSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTVPIINFMFNGVR
SEQ ID NO: 10	THMMPHLRIGWANTSGVYPPGGGKKGNGVGDDLLSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTVPIINFMFNGVR
SEQ ID NO: 56	THMMPHLRIGWANTSGVYPPGGGKKGNGVGDDLLSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTVPIINFMFNGVR
SEQ ID NO: 57	THMTPHLRIGWANTSGVYPPGGGKKGNGVGDDLLSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTVPIINFMFNGVR
SEQ ID NO: 58	TKQTPYLRIGWANSVGFPPGSGDKMGCNGVGDDLLSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTVPIINFMFNGVR
SEQ ID NO: 59	TSRPVHFRVGVWATTQGFRTYLRGGEGWNGVGDDLLSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTVPIINFMFNGVR
SEQ ID NO: 60	TAEATHLRVGVWASTEGYSPPYPPGGGKKGNGVGDDLLSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTVPIINFMFNGVR
SEQ ID NO: 61	TAEATHLRVGVWASTEGYSPPYPPGGGKKGNGVGDDLLSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTVPIINFMFNGVR
SEQ ID NO: 62	TAEATHLRVGVWASTEGYSPPYPPGGGKKGNGVGDDLLSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTVPIINFMFNGVR
SEQ ID NO: 2	VTGSFTNFNLEGMFFPVISSCKSLSCRFLLGGEHGRRLRYAAPEGYSPLVESLPPQIILSLEP--CFYFGNLSKRALAGP-PLVQDDTAFV
SEQ ID NO: 128	VTGSFTNFNLEGMFFPVISSCKSLSCRFLLGGEHGRRLRYAAPEGYSPLVESLPPQIILSLEP--CFYFGNLSKRALAGP-PLVQDDTAFV
SEQ ID NO: 130	VTGSFTNFNLEGMFFPVISSCKSLSCRFLLGGEHGRRLRYAAPEGYSPLVESLPPQIILSLEP--CFYFGNLSKRALAGP-PLVQDDTAFV
SEQ ID NO: 144	VTGSFTNFNLEGMFFPVISSCKSLSCRFLLGGEHGRRLRYAAPEGYSPLVESLPPQIILSLEP--CFYFGNLSKRALAGP-PLVQDDTAFV
SEQ ID NO: 146	VTGSFTNFNLEGMFFPVISSCKSLSCRFLLGGEHGRRLRYAAPEGYSPLVESLPPQIILSLEP--CFYFGNLSKRALAGP-PLVQDDTAFV
SEQ ID NO: 4	VQGAFRDNLDGMFFPVISSCKSVSCRFLLGGDHGRLLKFTPPDEFSPLEFTELPPQIILSLEP--CFYFGNLSKRALAGP-PLVQDDTAFV
SEQ ID NO: 6	VQGAFRDNLDGMFFPVISSCKSVSCRFLLGGDHGRLLKFTPPDEFSPLEFTELPPQIILSLEP--CFYFGNLSKRALAGP-PLVQDDTAFV
SEQ ID NO: 8	IRGCFRDNLDGMFFPVISSCKSVSCRFLLGGDHGRLLKFTPPDEFSPLEFTELPPQIILSLEP--CFYFGNLSKRALAGP-PLVQDDTAFV
SEQ ID NO: 10	VRGSFRDNLDGMFFPVMSCSSKSLSCRFLLGGDHGRLLKFTPPDEFSPLEFTELPPQIILSLEP--CFYFGNLSKRALAGP-PLVQDDTAFV
SEQ ID NO: 56	VRGSFRDNLDGMFFPVMSCSSKSLSCRFLLGGDHGRLLKFTPPDEFSPLEFTELPPQIILSLEP--CFYFGNLSKRALAGP-PLVQDDTAFV
SEQ ID NO: 57	VQGCFTDNLDGMFFPVMSCSSKSLSCRFLLGGDHGRLLKFTPPDEFSPLEFTELPPQIILSLEP--CFYFGNLSKRALAGP-PLVQDDTAFV
SEQ ID NO: 58	MSGFKKFNIDGYFFPVMMSLSAKVSCRFILGNGQRLRYGPTGFSAVVEAVN--GEIQITD--CLSFGLGKNIFSGPQTIFNNLEPFI
SEQ ID NO: 59	IKASFEGINLEGMFFPVLFSARVCARFILLGKHGRFKYSPKGFAAVCESVLPKERLKIET--CFALGHVTEGLIQGP-TASQDHSAFI
SEQ ID NO: 60	VQGMFENFIDGLFFPVSFAGIKVRFLLGGRHGEFKFLPPGYACYEAVLPKEKLVKVEHSREYKQERTYTRDILLGP-TVSLTQAAFT
SEQ ID NO: 61	VQGMFENFIDGLFFPVSFAGIKVRFLLGGRHGEFKFLPPGYACYEAVLPKEKLVKVEHSREYKQERTYTRDILLGP-TVSLTQAAFT
SEQ ID NO: 62	VQGMFENFIDGLFFPVSFAGIKVRFLLGGRHGEFKFLPPGYACYEAVLPKEKLVKVEHSREYKQERTYTRDILLGP-TVSLTQAAFT

FIGURE 1F

SEQ ID NO: 2	PTPVDTLQITLPTYVEQIRDKLAENIHEMWAMNKIEAGWMYGDQREDLHKIHPCLVPFFERLPPAEKRYDIQLAVQTLKTILALGYVISLD
SEQ ID NO: 128	PTPVDTLQITLPTYVEQIRDKLAENIHEMWAMNKIEAGWMYGDQREDLHKIHPCLVPFFERLPPAEKRYDIQLAVQTLKTILALGYVISLD
SEQ ID NO: 130	PTPVDTLQITLPTYVEQIRDKLAENIHEMWAMNKIEAGWMYGDQREDLHKIHPCLVPFFERLPPAEKRYDIQLAVQTLKTILALGYVISLD
SEQ ID NO: 144	PTPVDTLQITLPTYVEQIRDKLAENIHEMWAMNKIEAGWMYGDQREDLHKIHPCLVPFFERLPPAEKRYDIQLAVQTLKTILALGYVISLD
SEQ ID NO: 146	PTPVDTLQITLPTYVEQIRDKLAENIHEMWAMNKIEAGWMYGDQREDLHKIHPCLVPFFERLPPAEKRYDIQLAVQTLKTILALGYVISLD
SEQ ID NO: 4	PNPVDTSMTLPSYIENIKDKLAENIHEMWAMNKIEAGWMYGDQREDLHKIHPCLVPFFERLPPAEKRYDIQLAVQTLKTIVIALGYHISID
SEQ ID NO: 6	PNPVDTSMTLPSYIENIKDKLAENIHEMWAMNKIEAGWMYGDQREDLHKIHPCLVPFFERLPPAEKRYDIQLAVQTLKTIVIALGYHISID
SEQ ID NO: 8	PTPVDTSMTLPSYIENIKDKLAENIHEMWAMNKIEAGWMYGDQREDLHKIHPCLVPFFERLPPAEKRYDIQLAVQTLKTIVIALGYHISID
SEQ ID NO: 10	PKPVDTTGVTLPSSVDQIKDKLAENIHEMWAMNKIEAGWMYGDQREDLHKIHPCLVPFFERLPPAEKRYDIQLAVQTLKTIVIALGYHISID
SEQ ID NO: 56	PKPVDTTGVTLPSSVDQIKDKLAENIHEMWAMNKIEAGWMYGDQREDLHKIHPCLVPFFERLPPAEKRYDIQLAVQTLKTIVIALGYHISID
SEQ ID NO: 57	PKPVDTSIVTLPSSVETIKDKLAENIHEMWAMNKIEAGWMYGDQREDLHKIHPCLVPFFERLPPAEKRYDIQLAVQTLKTIVIALGYHISID
SEQ ID NO: 58	PTPIDVSATQLNHHATEMHQKVAENLHELWAMRKIELGWSYGETRSETSRKHPCLTFEKLPAAEKRYDIQLAVQTLKTIVIALGYHISID
SEQ ID NO: 59	PAPVDTANVNLPGYIEMLRDKLAENIHEMWAMNKIEAGWMYGDQREDLHKIHPCLVPFFERLPPAEKRYDIQLAVQTLKTIVIALGYHISID
SEQ ID NO: 60	PVPVDTSQIVLPPHLERIRERLAENIHEMWAMNKIEAGWMYGDQREDLHKIHPCLVPFFERLPPAEKRYDIQLAVQTLKTIVIALGYHISID
SEQ ID NO: 61	PIPVDTSQIVLPPHLERIRERLAENIHEMWAMNKIEAGWMYGDQREDLHKIHPCLVPFFERLPPAEKRYDIQLAVQTLKTIVIALGYHISID
SEQ ID NO: 62	PIPVDTSQIVLPPHLERIRERLAENIHEMWAMNKIEAGWMYGDQREDLHKIHPCLVPFFERLPPAEKRYDIQLAVQTLKTIVIALGYHISID
SEQ ID NO: 2	KPPAR--IRNVRLPNEPFMQSNGYKPAPLDL SAVTLTPKMDLVDQLAENTHNLWARIQQGWTYGLNE--DSDMHRSPHLVPYPKVDD
SEQ ID NO: 128	KPPAR--IRNVRLPNEPFMQSNGYKPAPLDL SAVTLTPKMDLVDQLAENTHNLWARIQQGWTYGLNE--DSDMHRSPHLVPYPKVDD
SEQ ID NO: 130	KPPAR--IRNVRLPNEPFMQSNGYKPAPLDL SAVTLTPKMDLVDQLAENTHNLWARIQQGWTYGLNE--DSDMHRSPHLVPYPKVDD
SEQ ID NO: 144	KPPAR--IRNVRLPNEPFMQSNGYKPAPLDL SAVTLTPKMDLVDQLAENTHNLWARIQQGWTYGLNE--DSDMHRSPHLVPYPKVDD
SEQ ID NO: 146	KPPAR--IRNVRLPNEPFMQSNGYKPAPLDL SAVTLTPKMDLVDQLAENTHNLWARIQQGWTYGLNE--DSDMHRSPHLVPYPKVDD
SEQ ID NO: 4	NPPSR--IKTVRLPNEPFMQSNGYKPAPLDL SAVTLTPKMDLVDQLAENTHNLWARIQQGWTYGLNE--ELQMLRSPHLVPYSKVDD
SEQ ID NO: 6	NPPSR--IKTVRLPNEPFMQSNGYKPAPLDL SAVTLTPKMDLVDQLAENTHNLWARIQQGWTYGLNE--ELQMLRSPHLVPYSKVDD
SEQ ID NO: 8	KPPSR--IKTVRLPNEPFMQSNGYKPAPLDL SAVTLTPKMDLVDQLAENTHNLWARIQQGWTYGLNE--ELQMLRSPHLVPYSKVDD
SEQ ID NO: 10	KPPAR--IRPVRLPNEPFMQSNGYKPAPLDL SAVTLTPKMDLVDQLAENTHNLWARIQQGWTYGLNE--DSENHRSPHLVPYAKVDE
SEQ ID NO: 56	KPPAR--IRPVRLPNEPFMQSNGYKPAPLDL SAVTLTPKMDLVDQLAENTHNLWARIQQGWTYGLNE--DSENHRSPHLVPYAKVDE
SEQ ID NO: 57	KPPAR--IRPVRLPNEPFMQSNGYKPAPLDL SAVTLTPKMDLVDQLAENTHNLWARIQQGWTYGLNE--DSENHRSPHLVPYAKVDE
SEQ ID NO: 58	DPPCR--LRAVRLGPN-FQQQNGYKPGPLDTHIQLPAELQPLTEALARNTHNIWAKETIKRGWTFGLSEHVDATQKRSPLVPYEQVDE
SEQ ID NO: 59	EETSKSTLKRLLPKN-YLMSNGYKPAPLYNLSTIHLNVKMEKLVLLAENAHNVWAKDRIAGWTYGLSE--ETSYKRNPLVPYTNQLND
SEQ ID NO: 60	DEHAEKVKMKLPKN-YQLTSGYKPAWMDLSFKLTPSQEAMVDKLAENAHNVWAKDRIAGWTYGLSE--ETSYKRNPLVPYTNQLND
SEQ ID NO: 61	DEHAEKVKMKLPKN-YQLTSGYKPAWMDLSFKLTPSQEAMVDKLAENAHNVWAKDRIAGWTYGLSE--ETSYKRNPLVPYTNQLND
SEQ ID NO: 62	DEHAEKVKMKLPKN-YQLTSGYKPAWMDLSFKLTPSQEAMVDKLAENAHNVWAKDRIAGWTYGLSE--ETSYKRNPLVPYTNQLND

FIGURE 1G

SEQ ID NO: 2	AIKKANRDTASETVRTLTVGYGYMLDPPPTGEQHEA-----LLEASKQKQADFRTRYAEKNYAVSSGKWYFEFEILTAGPMRVGWAHADMAP
SEQ ID NO: 128	AIKKANRDTASETVRTLTVGYGYMLDPPPTGEQHEA-----LLEASKQKQADFRTRYAEKNYAVSSGKWYFEFEFEILTAGPMRVGWAHADMAP
SEQ ID NO: 130	AIKKANRDTASETVRTLTVGYGYMLDPPPTGEQHEA-----LLEASKQKQADFRTRYAEKNYAVSSGKWYFEFEFEILTAGPMRVGWAHADMAP
SEQ ID NO: 144	AIKKANRDTASETVRTLTVGYGYMLDPPPTGEQHEA-----LLEASKQKQADFRTRYAEKNYAVSSGKWYFEFEFEILTAGPMRVGWAHADMAP
SEQ ID NO: 146	AIKKANRDTASETVRTLTVGYGYMLDPPPTGEQHEA-----LLEASKQKQADFRTRYAEKNYAVSSGKWYFEFEFEILTAGPMRVGWAHADMAP
SEQ ID NO: 4	AIKKANRDTASETVRTLTVGYGYMLDPPPTGETNEAT-----LTTDDNSNRYLTFRTYRAEKTYAVSSGKWYFEFEILTSGPMRVGWARFTCSPP
SEQ ID NO: 6	AIKKANRDTASETVRTLTVGYGYMLDPPPTGETNEAT-----LTTDENTNRYLTFRTYRAEKTYAVASGKWYFEFEILTNMGPMRVGWARFTCSPP
SEQ ID NO: 8	AIKKANRDTASETVRTLTVGYGYMLDPPPTGEAHEA-----LLAEASRLRQTHFRTRYAEKNYAVTTGKWYFEFEFEILTAGPMRVGWARSDCIPP
SEQ ID NO: 10	AIKKANRDTASETVRTLTVGYGYMLDPPPTGEGTEA-----LLAEAQLRKFAFRTRYRVERNYAVTSWKYFEFEFEILTSGPMRVGWARADCYPP
SEQ ID NO: 56	AIKKANRDTASETVRTLTVGYGYMLDPPPTGEGTEA-----LLAEAQLRKFAFRTRYRVERNYAVTSWKYFEFEFEILTSGPMRVGWARADCNPP
SEQ ID NO: 57	AIKKANRDTASETVRTLTVGYGYMLDPPPTGEANEA-----LAAEALRQKFAAYRTYRVERTYAVTSWKYFEFEFEILTAGYMKIGWMDIGSTP
SEQ ID NO: 58	RIKQANRESAAENIRALQFGIFLEPPAHEHDEV-----AEKELRARKONTRTRYAEATYAVCGGKWYFEFEFEILTAGYMKIGWMDIGSTP
SEQ ID NO: 59	QAKKLNDRDTASETIRTLGFGYALEPPTNEGQSDPSFRGLAREISDKKSHTRTRYAEATYAVCGGKWYFEFEFEILTAGYMKIGWMDIGSTP
SEQ ID NO: 60	RTKSNKDSLREAVRTLTVGYGYMLDPPPTGEGTEA-----AEVCSGTGERFRIFRAEKTYAVKAGRWYFEFEFEAVTAGDMRVGWSRPGCQP
SEQ ID NO: 61	RTKSNKDSLREAVRTLTVGYGYMLDPPPTGEGTEA-----AEVCSGTGERFRIFRAEKTYAVKAGRWYFEFEFEAVTAGDMRVGWSRPGCQP
SEQ ID NO: 62	RTKSNKDSLREAVRTLTVGYGYMLDPPPTGEGTEA-----AEVCSGTGERFRIFRAEKTYAVKAGRWYFEFEFEAVTAGDMRVGWSRPGCQP
SEQ ID NO: 2	GMMLGQDENSWAFDGYNEEKVYSGNTESFGKQWAGDVVGVFLLDLIDKTIISFSLNGELLMDALGGETTFADVQGDN--FVPACTLGVGQK
SEQ ID NO: 128	GMMLGQDENSWAFDGYNEEKVYSGNTESFGKQWAGDVVGVFLLDLIDKTIISFSLNGELLMDALGGETTFADVQGDN--FVPACTLGVGQK
SEQ ID NO: 130	GMMLGQDENSWAFDGYNEEKVYSGNTESFGKQWAGDVVGVFLLDLIDKTIISFSLNGELLMDALGGETTFADVQGDN--FVPACTLGVGQK
SEQ ID NO: 144	GMMLGQDENSWAFDGYNEEKVYSGNTESFGKQWAGDVVGVFLLDLIDKTIISFSLNGELLMDALGGETTFADVQGDN--FVPACTLGVGQK
SEQ ID NO: 146	GMMLGQDENSWAFDGYNEEKVYSGNTESFGKQWAGDVVGVFLLDLIDKTIISFSLNGELLMDALGGETTFADVQGDN--FVPACTLGVGQK
SEQ ID NO: 4	GYQIGSDENSWAFDGYNEEKIYMGTAESFGRQWQVGVGVFLLDLIDKTIISFSLNGELLMDLTLGGETTFSEVQGEH--FVPAFTLGLGQK
SEQ ID NO: 6	GYQIGSDENSWAFDGYNEEKIYMGTAESFGRQWQVGVGVFLLDLIDKTIISFSLNGELLMDLTLGGETTFSEVQGEH--FVPAFTLGLGQK
SEQ ID NO: 8	GSQLGNDYSWAFDGFNEEKVYLGTCESFGRQWQVGVGVFLLDLIDKTIISFSLNGELLMDLTLGGETTFSEVQGEH--FVPAFTLGLGQK
SEQ ID NO: 10	GAMLGSEDTSWAFDGHNVTKMHAGSIEHFGRVYAEAGDVIGCFIDVKEQTIISFSLNGELLMDALGGETTFADVTAEGVGFVPACTLGVGQK
SEQ ID NO: 56	GAMLGSEDTSWAFDGHNEEKVYGGVSESFGKQCGPGDIVGVFLLDLADHTIISFSLNGELLMDALGGETTFADVTAEGVGFVPACTLGVGQK
SEQ ID NO: 57	GTMLGSDDASWAFDGYN-----IGQK
SEQ ID NO: 58	EIQLGADDRSYAFDGYLGRKWHQG-AETYGKEWKIGDVVGCFLLDLNDRITISFSLNGELLMDLPSGSEMAFDNVVCGDG-LVPAMTLGSGQR
SEQ ID NO: 59	RSEVGTDCGSFAFDGFLARKWHQGS-ETFGKTWGEDMDVIGCMNLVDNTISFTMNGEYLDCSVGSEMAFHDIEICEG-FVPVCMLAAGEK
SEQ ID NO: 60	DLELGSDDRAFADGFKAQRRWHQGN-EHYGRSQWAGDVVGCMVDMNEHTMMFTLNGEILLDDSGSELAFAKDFDVGDG-FIPVCSLGVQV
SEQ ID NO: 61	DQELGSDDERAFADGFKAQRRWHQGN-EHYGRSQWAGDVVGCMVDMNEHTMMFTLNGEILLDDSGSELAFAKDFDVGDG-FIPVCSLGVQV
SEQ ID NO: 62	DQELGSDDERAFADGFKAQRRWHQGN-EHYGRSQWAGDVVGCMVDMNEHTMMFTLNGEILLDDSGSELAFAKDFDVGDG-FIPVCSLGVQV

FIGURE 1H

ARLTVGQDVNTLKYFTTCGLQEGYEPFCVNMKRDVTHWYTKDQPIFENTDEMID-TRIDVTRIPAGSDTPPCLKISHNTFE---- <td>ID NO:2</td> <td>SEQ</td>	ID NO:2	SEQ
ARLTVGQDVNTLKYFTTCGLQEGYEPFCVNMKRDVTHWYTKDQPIFENTDEMID-TRIDVTRIPAGSDTPPCLKISHNTFE---- <td>ID NO:128</td> <td>SEQ</td>	ID NO:128	SEQ
ARLTVGQDVNTLKYFTTCGLQEGYEPFCVNMKRDVTHWYTKDQPIFENTDEMID-TRIDVTRIPAGSDTPPCLKISHNTFE---- <td>ID NO:130</td> <td>SEQ</td>	ID NO:130	SEQ
ARLTVGQDVNTLKYFTTCGLQEGYEPFCVNMERDVTHWYTKDQPIFENTDEMID-TRIDVTRIPAGSDTPPCLKISHNTFE---- <td>ID NO:144</td> <td>SEQ</td>	ID NO:144	SEQ
ARLTVGQDVNTLKYFTTCGLQEGYEPFCVNMKRDVTHWYTKDQPIFENTDEMID-TRIDVTRIPAGSDTPPCLKISHNTFE---- <td>ID NO:146</td> <td>SEQ</td>	ID NO:146	SEQ
AKLTFGQDVNSLKYFTTCGLQEGYEPFCVNMKRPVAYWYTKDQPIFENTDDFS--SVIDVTRIPAGSDTPPCLKISHNTFE---- <td>ID NO:4</td> <td>SEQ</td>	ID NO:4	SEQ
AKLTFGQDVNSLKYFTTCGLQEGYEPFCVNMKRPVYWYTKDQPIFENTDDFS--SVIDVTRIPAGSDTPPCLKISHNTFE---- <td>ID NO:6</td> <td>SEQ</td>	ID NO:6	SEQ
AKLTFGQDVNTLVKFFTTTCGLQEGYEPFCVNMNRAVYWYTKDHPINFENTEDYAD-SRIDVTRIPAGSDTPPCLKISHNLFE---- <td>ID NO:8</td> <td>SEQ</td>	ID NO:8	SEQ
ARLIYGQDVDSLKFFTTTCGLQEGYEPFCVNMRRPVTWYTKDQPIFENTEEMPD-CRIDVTRIPGGADTPPHLKISHNTFE---- <td>ID NO:10</td> <td>SEQ</td>	ID NO:10	SEQ
ARLIYGQDVDSLKFFTTTCGLQEGYEPFCVNMRRPVTWYTKDQPIFENTEEMPD-CRIDVTRIPGGADTPPHLKISHNTFE---- <td>ID NO:56</td> <td>SEQ</td>	ID NO:56	SEQ
ARVYVGQDVDSLKWFTTCGLQEGYEPFCVNMKRPVTWYTKDQPIFENTDEIPE-CKIDVTRIPGGADTPPCMISHNTFE---- <td>ID NO:57</td> <td>SEQ</td>	ID NO:57	SEQ
GRLNFGQQSNLSLKFFTTTCGLQEGYEPFCVNMRYKTMPMWFAKHFPRFEDISTLKSLSILEVSRIPATGNSPPCLKILQKVITISEGGPSEKA	ID NO:58	SEQ
AHLHFGQDVNDLKYFTTVCGLQEGYEPFCVNMKSMPLWYSKSPMFOSIEDEH--DRLGIVTRIPAGIEGPPCLKVSHKKCG-----TVENL	ID NO:59	SEQ
GRMNFCKDVSTLKYFTTICGLQEGYEPFAVNTNRDITMWLSKRLPQFLQVPSNH--EHIEVTRIDGTIDSSPCLKVTKQSFGS----QNNNT	ID NO:60	SEQ
GRMNFCKDVSTLKYFTTICGLQEGYEPFAVNTNRDITMWLSKRLPQFLQVPSNH--EHIEVTRIDGTIDSSPCLKVTKQSFGS----QNSNT	ID NO:61	SEQ
GRMNFCKDVSTLKYFTTICGLQEGYEPFAVNTNRDITMWLSKRLPQFLQVPSNH--EHIEVTRIDGTIDSSPCLKVTKQSFGS----QNSNT	ID NO:62	SEQ
NWFEURLSLPVI CHNEFIDEAEKARRWEIKDRQRI LMK-----EAVEAQMS-----AHIDQIMRSGFTMNDIKGLHYE-DNQEE	ID NO:2	SEQ
NWFEURLSLPVI CHNEFIDEAEKARRWEIKDRQRI LMK-----EAVEAQMP-----AHIDQIMRSGFTMNDIKGLHYE-DNQEE	ID NO:128	SEQ
NWFEURLSLPVI CHNEFIDEAEKARRWEIKDRQRI LMK-----EAVEAQMP-----AHIDQIMRSGFTMNDIKGLHYE-DNQEE	ID NO:130	SEQ
NWFEURLSLPVI CHNEFIDEAEKARRWEIKDRQRI LMK-----EAVEAQMP-----AHIDQIMRSGFTMNDIKGLHYE-DNQEE	ID NO:144	SEQ
NWFEURLSLPVI CHNEFIDEAEKARRWEIKDRQRI LMK-----EAVEAQMP-----AHIDQIMRSGFTMNDIKGLHYE-DNQEE	ID NO:146	SEQ
NWFEURLSLPVI CLPSFIDQEKQGWQEI RIQRHRLLS-----QSEHATP-----AHIERIMKSGFMSDIKGLHRGYSDDPV	ID NO:4	SEQ
NWFEURLSLPVI CLPNFIDQEKQRRWQEI RIQRHRLLS-----QSEHATP-----AHIEQIMKSGFMSDIKGLHRGYSDDPV	ID NO:6	SEQ
NWFEURLSLPVI CHSSFIDSEKLRWQEI RIQRHRLMV-----EADQ TTP-----AHMEQIMKSGLSMSDIKGLHRGYSEDAV	ID NO:8	SEQ
NWFEURLSLPVT CMGEFIDSEQEKARRWDEIKNRQYRLMR-----EAEIAAQMVQVQAAHMDHMLKGGFNMDNDIKGLTRNFDEHAD	ID NO:10	SEQ
NWFEURLSLPVT CMGEFIDSEQEKARRWDEIKNRQYRLMR-----EAEIAAQMVQVQAAHMDHMLKGGFNMDNDIKGLTRNFDEHAD	ID NO:56	SEQ
NWFEURLSLPVT CANFTITEQEKMRWEEI RIQRHRLMT-----EVDHSAP-----AHFDHIMRSGFTMNDIKGLHRNYSEDAA	ID NO:57	SEQ
KMEYIKLSLPVKCNDTFVKNKDKETIRRLQLEYKPRSQS-----VVSQIRAPGIPKEFDNDKEKGFRLSMLGSKDSHESDDRRRS	ID NO:58	SEQ
PTEYLRLSMPVVKCOPFTPSGEMVLSIPVPLVSPGNKRGQWIIQQATSLDLSSETDSN-----DGTRNRTRSGLDKWEHKAIDTDAIDGDA	ID NO:59	SEQ
DIMFYRLSMPIECAEVFSKSVAGGLPGAGFYGPKS-----DLED FVDV-----SDFEVLMKTAHGHLVPDRIDKOKETPKP	ID NO:60	SEQ
DIMFYRLSMPIECAEVFSKTVPGGLPGAGLFGPKN-----DLEDYDAD-----SDFEVLMKTAHGHLVPDRVDKDKETTKA	ID NO:61	SEQ
DIMFYRLSMPIECAEVFSKTVAGGLPGAGLFGPKN-----DLEDYDAD-----SDFEVLMKTAHGHLVPDRVDKDKKEATKP	ID NO:62	SEQ

FIGURE 11

SEQ ID NO: 2	LPSSKMK-----RLP--SRPPRK---GSMTRGVTIQYNNLQPGQVNGMHRSTSEAEAMKYDLGAQGLTP-D-DKKDKRGRSPFK
SEQ ID NO: 128	LPSSKMK-----RLP--SRPPRK---GSMTRGVTIQYNNLQPGQVNGMHRSTSEAEAMKYDLGAQGLTP-D-DKKDKRGRSPFK
SEQ ID NO: 130	LPSSKMK-----RLP--SRPPRK---GSMTRGVTIQYNNLQPGQVNGMHRSTSEAEAMKYDLGAQGLTP-D-DKKDKRGRSPFK
SEQ ID NO: 144	LPSSKMK-----RLP--SRPPRK---GSMTRGVTIQYNNLQPGQVNGMHRSTSEAEAMKYDLGAQGLTP-D-DKKDKRGRSPFK
SEQ ID NO: 146	LPSSKMK-----RLP--SRPPRK---GSMTR-----GQVNGMHRSTSEAEAMKYDLGAQGLTP-D-DKKDKRGRSPFK
SEQ ID NO: 4	ENDEIMPNTAPLPARGKNQPPPPRPK---GSLSRHDDLTIEN-----DGKLNRSSELNFNIYHQNGDGDQDINKDDKKRGRSPFR
SEQ ID NO: 6	ENDEIMPNTAPLPARGKNQPPPPRPK---GSLSRHDDLTIEN-----DGKLNRSSELNFNIYHQNGDGDQDINKDDKKRGRSPFR
SEQ ID NO: 8	EADMMMQSTPTTKSKMRQ--SRPPRK---GSLSRHDDLTIEN-----SLEQSKMNRSTSELDLNRYNADLQN-----DKDDKKRGRSPFR
SEQ ID NO: 10	AEADHMM-----RGP--NRPPRK---GSLTRN-----ITFETDMSAALDEMQRSTSVLDMNGLGE-EMDDKKRGRSPFK
SEQ ID NO: 56	AEADHMM-----RGP--NRPPRK---GSLTRN-----ITFETDMSAALDEMQRSTSVLDMNGLGE-EMDDKKRGRSPFK
SEQ ID NO: 57	EADMMR-----NGP--RRPSRHQGRGLSP-----PGIEINGEATSDGELNAYSDELEGG-----DDRKKRGRSPFR
SEQ ID NO: 58	RTNSKQPSVDG-----DEP--PAVRRS-----LLELP-----HD-ERQIAEDSMRDLDNRHSEKPKGGLLSRLRDSNSTKRNFR
SEQ ID NO: 59	RVNGYNGDTK-----ELT--KKEKKK-----LASLP-----LGRKIPMSRAASSETSTVQSPDSSF--ERSGSPSPAKSKSKFT
SEQ ID NO: 60	EFNNHKDYAQ-----EKP--SRLKQR-----FLLR-----RTKPDYSTGHSARLT
SEQ ID NO: 61	EFNNHKDYAQ-----EKP--SRLKQR-----FLLR-----RTKPDYSTGHSARLT
SEQ ID NO: 62	EFNNHKDYAQ-----EKP--SRLKQR-----FLLR-----RTKPDYSTGHSARLT
SEQ ID NO: 2	FFRSK---RGESSDRAKSRKSKTPDPFSDTEVSPERGA---RRPNPQIKVSOANQR-YNGMNPSPSRITNLYGSQVGLNSNAQMATPTQD
SEQ ID NO: 128	FFRSK---RGESSDRAKSRKSKTPDPFSDTEVSPERGA---RRPNPQIKVSOANQR-YNGMNPSPSRITNLYGSQVGLN---MATPTQD
SEQ ID NO: 130	FFRSK---RGESSDRAKSRKSKTPDPFSDTEVSPERGA---RRPNPQIKVSOANQR-YNGMNPSPSRITNLYGSQVGLN---MATPTQD
SEQ ID NO: 144	FFRSK---RGESSDRAKSRKSKTPDPFSDTEVSPERGA---RRPNPQIKVSOANQR-YNGMNPSPSRITNLYGSQVGLNSNAQMATPTQD
SEQ ID NO: 146	FFRSK---RGESSDRAKSRKSKTPDPFSDTEVSPERGA---RRPNPQIKVSOQ--N-AQ-----MATPTQD
SEQ ID NO: 4	FFRSK---KEGSDNPCKRAKTPDPARNVDRPNAAHPNTLNERVTQIRVSQMDLK-LVPPAIPDR-----PGG
SEQ ID NO: 6	FFRSK---KEGSDNPCKRAKTPDPARNVDRPNAAHPNTLNERITPQIRVSQMDLK-LVPPAIPDR-----PGG
SEQ ID NO: 8	FFRSK---REASNERSKKAKSPENSMMEADRGQMGRS-QHHMMRTPTVKVTAADMK-VIPPTIPER-----SNM
SEQ ID NO: 10	FFSKKS---RDQSRKMGARTLDTSLERNNTVA---HGR---NVVNQOMTTTAPTLR-LNNAEIPPS-----PVPQG
SEQ ID NO: 56	FFSKKS---RDQSRKMGARTLDTSLERNNTVA---HGR---NVVNQOMTTTAPTLR-LNNAEIPPS-----PVPQG
SEQ ID NO: 57	LFGKK---RDQSKDKLDRRTPEPEPRKS-----NLKVTQCGQATR-MSNSDLR-----AQA
SEQ ID NO: 58	DSDRKEEKAQRLQMKANSRFDAGSLDTSTLPTGQK---DVLASSEMPLSGPGRQLTIKRSSIKKNK-----GKKAEIA
SEQ ID NO: 59	KSSSDSGAKHPEDTLAKPTGYEVDGQSPGAARRGK--HDLRTPEASPPGTLTREYIPLKSDNEGSV-----GSDNHGR
SEQ ID NO: 60	-----EDVLG-----
SEQ ID NO: 61	-----EDVLAD-----
SEQ ID NO: 62	-----EDVLAD-----

FIGURE 1J

SEQ ID NO: 2	PKQMTTSTLAQ-----SATETVGN-EIFDAECLKLINEFYGVRIYPGQDPTHMYIGWVTTQYHLHSDKDFNQSK-VTKSSVIIITDDYDR
SEQ ID NO: 128	PKQMTTSTLAQ-----SATETVGN-EIFDAECLKLINEFYGVRIYPGQDPTHMYIGWVTTQYHLHSDKDFNQSK-VTKSSVIIITDDYDR
SEQ ID NO: 130	PKQMTTSTLAQ-----SATETVGN-EIFDAECLKLINEFYGVRIYPGQDPTHMYIGWVTTQYHLHSDKDFNQSK-VTKSSVIIITDDYDR
SEQ ID NO: 144	PKQMTTSTLAQ-----SATETVGN-EIFDAECLKLINEFYGVRIYPGQDPTHMYIGWVTTQYHLHSDKDFNQSK-VTKSSVIIITDDYDR
SEQ ID NO: 146	PKQMTTSTLAQ-----SATETVGN-EIFDAECLKLINEFYGVRIYPGQDPTHMYIGWVTTQYHLHSDKDFNQSK-VTKSSVIIITDDYDR
SEQ ID NO: 4	PKAMSFPTPS-----AGIEFVGN-EIFDLECLKLINEYYYGVRIFFPGQDPTHVVVGWVTTQYHLHTKDFSQNH-VRKSTVTIVDEHNG
SEQ ID NO: 6	PKAMSFPTPS-----AGIEFVGN-EIFDLECLKLINEYYYGVRIFFPGQDPTHVVVGWVTTQYHLHTKDFSQNH-VRKSTVTIVDEHNR
SEQ ID NO: 8	PKQMTGAPLSG-----SGIESVGN-EIFDGECLKLINEFYGVRIFFPGQDPTHVVVGWVTTQYHFFANEFNQSK-VRKVTVHTLDEFNR
SEQ ID NO: 10	PKQLSGSNLQ-----QPVETSGD-EMFDAECLKLINEFYGVRIFFPGQDPTHVVVGWVTTQYHLHSREFNKNK-VRRGSVYIEDDYEM
SEQ ID NO: 56	PKQLSGSNLQ-----QPVETSGD-EMFDAECLKLINEFYGVRIFFPGQDPTHVVVGWVTTQYHLHSREFNKNK-VRRGSVYIEDDYEM
SEQ ID NO: 57	PLTPERKMGMS-----PQVESFGN-EVYDADCLRLINEFYGVRIFFPGQDPTHVVVGWVTTQYHLHSREFNKNK-VRHAAIYVEDENEK
SEQ ID NO: 58	LEKMERKKGSIIPMDAQLDLVQEGDAHALVHHKDKVDEYYYGIRIFFPGQDPHVSQVWVWVTTQYHYNNVDFDGSQGVKCRFSEADHHGT
SEQ ID NO: 59	PRLAKLVSMGSSFDVFSKIDIMSDISEADSIDLMMTKFYYSVRIFFPGQDPHVSQVWVWVTTQYHYNNVDFDGSQGVKCRFSEADHHGT
SEQ ID NO: 60	-----DRDDYEYLMQTSYYSVRIFFPGQEPANVWVWVTTSDFHQYDTGFDLDR-VRTVTVTILGDEKGG
SEQ ID NO: 61	-----DRDDYDFLMQTSYYSVRIFFPGQEPANVWVWVTTSDFHQYDTGFDLDR-VRTVTVTILGDEKGG
SEQ ID NO: 62	-----DRDDYDFLMQTSYYSVRIFFPGQEPANVWVWVTTSDFHQYDTGFDLDR-VRTVTVTILGDEKGG
SEQ ID NO: 2	VVENVNRQSCYMVRADELYNEVMAEATAKASQGMFIGCSVDTSVTSFTCEGKDTSFKFKMEPETKLPFAISVEATSKELQIELGR-
SEQ ID NO: 128	VVENVNRQSCYMVRADELYNEVMAEATAKASQGMFIGCSVDTSVTSFTCEGKDTSFKFKMEPETKLPFAISVEATSKELQIELGR-
SEQ ID NO: 130	VVENVNRQSCYMVRADELYNEVMAEATAKASQGMFIGCSVDTSVTSFTCEGKDTSFKFKMEPETKLPFAISVEATSKELQIELGR-
SEQ ID NO: 144	VVENVNRQSCYMVRADELYNEVMAEATAKASQGMFIGCSVDTSVTSFTCEGKDTSFKFKMEPETKLPFAISVEATSKELQIELGR-
SEQ ID NO: 146	VVENVNRQSCYMVRADELYNEVMAEATAKASQGMFIGCSVDTSVTSFTCEGKDTSFKFKMEPETKLPFAISVEATSKELQIELGR-
SEQ ID NO: 4	ILESIDRQSCYMVRSDELYNEVTNDSGKASQGMFIGCFIDATGLMSFTCEGKETSFKFKMEPDIKLPFAISVEATSKELQIELGR-
SEQ ID NO: 6	ILESIDRQSCYMVRSDELYNEVTNDSGKASQGMFIGCFIDATGLMSFTCEGKETSFKFKMEPDIKLPFAISVEATSKELQIELGR-
SEQ ID NO: 8	VNESVDRQSCYMVRSDELNFNEVTNDSGKASQGMFIGCFVDAATGYISFTCEGKETSFKFKMEPDIKLPFAISVEATSKELQIELGR-
SEQ ID NO: 10	AIERIDRQSCYVVRADELNFNEVTQDASGKASQGMFIGCFVDAATGYISFTCEGKETSFKFKMEPDIKLPFAISVEATSKELQIELGR-
SEQ ID NO: 56	AIERIDRQSCYVVRADELNFNEVTQDASGKASQGMFIGCFVDAATGYISFTCEGKETSFKFKMEPDIKLPFAISVEATSKELQIELGR-
SEQ ID NO: 57	TIEIVNRQSCYMVRADELNFNEVTQDSSGKASQGMFIGCFVDAATGYISFTCEGKETSFKFKMEPDIKLPFAISVEATSKELQIELGR-
SEQ ID NO: 58	TVDSVQSNQCYMVNVSELLATT--PDVANTKVSGLTIGCIIDTSIGELSFQVGSVTDGTFKLEPGAMLFPAFVFKPTSKEMLQFELGRS
SEQ ID NO: 59	VQESSKRRCFTVCVGDHMDLLI--TPEGRRISGLVVGCVVDACNGELYFTINGRDISYQVEPKTLPFAVFKPTSKEMLQFELGRS
SEQ ID NO: 60	VHESIKRNSCYMVCAGESMS----PQQRNNSNGLEIGCVVDAAASGLLTFIANGKELSTYYQVEPSTKLPFAVFAQATSPNVFQFELGR-
SEQ ID NO: 61	VHESIKRNSCYMVCAGESMS----PQQRNNSNGLEIGCVVDAAASGLLTFIANGKELSTYYQVEPSTKLPFAVFAQATSPNVFQFELGR-
SEQ ID NO: 62	VHESIKRNSCYMVCAGESMS----PQQRNNSNGLEIGCVVDAAASGLLTFIANGKELSTYYQVEPSTKLPFAVFAQATSPNVFQFELGR-

FIGURE 1K

SEQ ID NO: 2	-----SATSLPLSAAVLPTSDKHVLPQFPRLKVQCLKPHQWARVPNQSLQVHALKLSGIRGWSMLCEDAVSMLAL
SEQ ID NO: 128	-----SATSLPLSAAVLPTSDKHVLPQFPRLKVQCLKPHQWARVPNQSLQVHALKLSDIRGWSMLCEDAVSMLAL
SEQ ID NO: 130	-----SATSLPLSAAVLPTSDKHVLPQFPRLKVQCLKPHQWARVPNQSLQVHALKLSDIRGWSMLCEDAVSMLAL
SEQ ID NO: 144	-----SATSLPLSAAVLPTSDKHVLPQFPRLKVQCLKPHQWARVPNQSLQVHALKLSDIRGWSMLCEDAVSMLAL
SEQ ID NO: 146	-----SATSLPLSAAVLPTSDKHVLPQFPRLKVQCLKPHQWARVPNQSLQVHALKLSDIRGWSMLCEDAVSMLAL
SEQ ID NO: 4	-----TSTTLPLSAAVLQNSERHVLPPQFPRLKVQCLRPHQWARVPNDSLHIHTLKLSDIRGWSILCEDPVSMIAL
SEQ ID NO: 6	-----TSTTLPLSAAVLQNSERHVLPPQFPRLKVQCLRPHQWARVPNDSLHIHTLKLSDIRGWSILCEDPVSMIAL
SEQ ID NO: 8	-----TSTTLPLSAAVLQNSERHVLPPQFPRLKVQCLRPHQWARVPNDSLHIHTLKLSDIRGWSMLCEDPMSMLAL
SEQ ID NO: 10	-----TPTTLPLSAAVLPTSDKHINPQSPRLKVQCLRPHQWARVPNTALQVHALKLSDVGRGWSMLCEDPVSMIAL
SEQ ID NO: 56	-----TPTTLPLSAAVLPTSDKHINPQSPRLKVQCLRPHQWARVPNTALQVHALKLSDVGRGWSMLCEDPVSMIAL
SEQ ID NO: 57	-----TPTTLPLSAAVLPTSDKHINPQFPRLKVQCLKPHQWARVPNTALQVHALKLSDIRGWSMLCEDPVSMIAL
SEQ ID NO: 58	-----IKYTFPLSAAMFKSCEKSLVPFCPPRLTVEQIESVYWARVPNETLRTTALKLSEVRGWSVLCNDPVRIMSV
SEQ ID NO: 59	KILERRSSVQSEIAQMSVQNCLPLSAWFRGDTHTNPQCPSPRVEQVMYTNWAPLQTMNIETKMSDNGWLVSCEPEPVSMLGV
SEQ ID NO: 60	-----IKNMVPLSAGLFKSEHKNPVPCPPRLHVQFLSHVLWSRMPNQFLKVDVSRISERQGWLVQCLDPLQFMSL
SEQ ID NO: 61	-----IKNMVPLSAGLFKSEHKNPVPCPPRLHVQFLSHVLWSRMPNQFLKVDVSRISERQGWLVQCLDPLQFMSL
SEQ ID NO: 62	-----IKNMVPLSAGLFKSEHKNPVPCPPRLHVQFLSHVLWSRMPNQFLKVDVSRISERQGWLVQCLDPLQFMSL
SEQ ID NO: 2	HIPEEDRCIDILELEIEMDKLLSFHSHTLTLYAALCYQSNYRAAAHALCSHADQKQLLYAIQSQYMSGPLRQGFYDLLTALHLESHATTMEA
SEQ ID NO: 128	HIPEEDRCIDILEPIEMDKLLSFHSHTLTLYAALCYQSNYRAAAHALCTHVDQKQLLYAIQSQYMSGPLRQGFYDLLIALHLESHATTMEA
SEQ ID NO: 130	HIPEEDRCIDILELEIEMDKLLSFHSHTLTLYAALCYQSNYRAAAHALCTHVDQKQLLYAIQSQYMSGPLRQGFYDLLIALHLESHATTMEA
SEQ ID NO: 144	HIPEEDRCMDILELEIEMDKLLSFHSHTLTLYAALCYQSNYRAAAHALCTHVDQKQLLYAIQSQYMSGPLRQGFYDLLIALHLESHATTMEA
SEQ ID NO: 146	HIPEEDRCIDILELEIEMDKLLSFHSHTLTLYAALCYQSNYRAAAHALCTHVDQKQLLYAIQSQYMSGPLRQGFYDLLIALHLESHATTMEA
SEQ ID NO: 4	HIPEEDRCIDILELEIEMDKLLSFHAHTLTLYAAVCYQANYRAAAHILCTHVNQKQLLYAICSEYMSGPLRQGFYDLLIALHLESHATTMEV
SEQ ID NO: 6	HIPEEDRCIDILELEIEMDKLLSFHAHTLTLYAAVCYQANYRAAAHILCTHVNQKQLLYAICSEYMSGPLRQGFYDLLIALHLESHATTMEV
SEQ ID NO: 8	HIPEEDRSIDILELEIEMDKLLSFHAHTLTLYAALCFQSNYRAAAHTLCSHVDEKQLLYAIRDYMSGPLRQGFYDLLIALHLESHATTMEV
SEQ ID NO: 10	RIPEEDRCIDILELEIEMDKLLSFHAHSLTLYAALCYQSNYRAAAHALCQHVQKQLLYAIRDSEYMSGPLRQGFYDLLIALHLESHATTMEV
SEQ ID NO: 56	HIPEEDRCIDILELEIEMDKLLSFHAHSLTLYAALCYQSNYRAAAHALCQHVQKQLLYAIRDSEYMSGPLRQGFYDLLIALHLESHATTMEV
SEQ ID NO: 57	HIPEEDRCIDILEIEIDRLLOQHAHTLTLYSALCYQSNYRAAAHALCSHVQKQLLYAIQSEYMSGPLRGLFGYDLLIISLHLESHATTMEV
SEQ ID NO: 58	YIPEKDQSLDILEMIEMDPDMEFRQTLNLYCKLASHGNHKAHTLCQHIDEDQIMVAIKSHYLSGPMRQGFYDLLIIGLHMSHTAARNS
SEQ ID NO: 59	HIPEENRCMDILELVEHEDDLKFAHTLRLYCSVCSHGNHVAHALINHVNEQOLMVCQCPYISGPIRIGYNNLHALLQTHVTSARLK
SEQ ID NO: 60	HIPEENRSVDILELTEQEELLQFHYHTLRLYSACVCAALGNHVAHALCSHVDEPQLLYAIENKYPGLLRAGYVDLLIDIHLSYATARLM
SEQ ID NO: 61	HIPEENRSVDILELTEQEELLKPHYHTLRLYSACVCAALGNHVAHALCSHVDEPQLLYAIENKYPGLLRAGYVDLLIDIHLSYATARLM
SEQ ID NO: 62	HIPEENRSVDILELTEQEELLKPHYHTLRLYSACVCAALGNHVAHALCSHVDEPQLLYAIENKYPGLLRAGYVDLLIDIHLSYATARLM

FIGURE 1L

SEQ ID NO: 2	CKNEFVPLGPELKALYEEDMG--HSLR-----SLQTESVRPQMKMTDIA-----ESITEISNLYSPYFPLEVVREF
SEQ ID NO: 128	CKNEFVPLGPELKALYEEDMG--HSLR-----SLQTESVRPQMKMTDIA-----ESITEISNLYSPYFPLEVAREF
SEQ ID NO: 130	CKNEFVPLGPELKALYEEDMG--HSLR-----SLQTESVRPQMKMTDIA-----ESITEISNLYSPYFPLEVVREF
SEQ ID NO: 144	CKNEFVPLGPELKALYEEDMG--HSLR-----SLQTESVRPQMKMTDIA-----ESITEISNLYSPYFPLEVVREF
SEQ ID NO: 146	CKNEFVPLGPELKALYEEDMG--HSLR-----SLQTESVRPQMKMTDIA-----ESITEISNLYSPYFPLEVVREF
SEQ ID NO: 4	CKXEYIPLGHELTLYDDPQMG--HSLR-----SLQTESVRPQMKMTEISD-----VIDNVRNLYSPYFPLQVVREY
SEQ ID NO: 6	CKXEYIPLGHELTALYDDPQMG--HSLR-----SLQTESVRPQMKMTEISD-----VIDNVRNLYSPYFPLQVVREY
SEQ ID NO: 8	CKNEFIPIGQELKOVVEDPMC--HSLR-----SLKTESVLPQMKMTDKADEPS-----PSEVVDNIRSLYSPQFPLDVVRDF
SEQ ID NO: 10	CKNEYITPLGAELKELYSDEEMQ--HSLR-----SLVTESVRPQLRMTEIT-----EPIPDIDQLYSPKFFPLEVVRQF
SEQ ID NO: 56	CKNEYITPLGAELKELYSDEEMQ--HSLR-----SLVTESVRPQLRMTEIT-----EPIPDIDQLYSPKFFPLEVVRQF
SEQ ID NO: 57	CKNEYIPLGSELRELYIDPMC--HSLR-----SLQTLVSRPEMNMTEIAPTQSQSNMPTIVAPDSSEPIPAIDSLYSPRFRPLEVVREF
SEQ ID NO: 58	MAKEYVPLVPQLQIKNVLDPS--HSLR-----ESRYPQITGESVMSLQMASPEVK-----KHVSREDEMCLLPPSVDFEALKKH
SEQ ID NO: 59	TQDEFTIPLMAGPKPVDEELDISSMSIKRALSTTKSVIRPQLNIGPSAD--S-----SHQSFQSMKASEQAPPGFNMVVLKQH
SEQ ID NO: 60	MNNEFIVPMTTEETKSITLFPDENKKHGLP--GIGLSTSLRPRMF-----SSPSFVSISNDCYQYSPEFFPLDILKAK
SEQ ID NO: 61	MNNEFIVPMTTEETKSITLFPDENKKHGLP--GIGLSTSLRPRMF-----SSPSFVSINNECYQYSPEFFPLDILKAK
SEQ ID NO: 62	MNNEYIVPMTTEETKSITLFPDENKKHGLP--GIGLSTSLRPRMQF-----SSPSFVSISNECYQYSPEFFPLDILKSK
SEQ ID NO: 2	VMQALAEAVETNQVHNWDPVGGSNENFLPLIKLVDRLLLVGMMRDEDVEKLLIMTNPETWDP-----S
SEQ ID NO: 128	VMQALAEAVETNQVHNWDPVGGSNENFLPLIKLVDRLLLVGMMRDEDVEKLLIMTNPETWDP-----S
SEQ ID NO: 130	VMQALAEAVETNQVHNWDPVGGSNENFLPLIKLVDRLLLVGMMRDEDVEKLLIMTNPETWDP-----S
SEQ ID NO: 144	VMQALAEAVETNQVHNWDPVGGSNENFLPLIKLVDRLLLVGMMRDEDVEKLLIMTNPETWDP-----S
SEQ ID NO: 146	VMQALAEAVETNQVHNWDPVGGSNENFLPLIKLVDRLLLVGMMRDEDVEKLLIMTNPETWDP-----S
SEQ ID NO: 4	VMAALBEAVLVNQVHNWDPVGGSNENFLPLIKLVDRLLLVGMMLRDEDVEKLLIMINPETWDP-----E
SEQ ID NO: 6	VMAALBEAVLVNQVHNWDPVGGSNENFLPLIKLVDRLLLVGMMLRDEDVEKLLIMINPETWDP-----E
SEQ ID NO: 8	VMAALDEAVQINQLHNWDPVGGSNENFLPLIKLVDRLLLVGMMLRDEDVGMKLLIMFSPETWDT-----A
SEQ ID NO: 10	VMEALKDAVEINQVHNWDPVGGSNENFLPLIKLVDRLLLVGMMLRDEDVGMKLLIMFSPETWDT-----A
SEQ ID NO: 56	VMEALKDAVEINQVHNWDPVGGSNENFLPLIKLVDRLLLVGMMLRDEDVGMKLLIMFSPETWDT-----A
SEQ ID NO: 57	VMSALQEAQVQINQVHNWDPVGGSNENFLPLIKLVDRLLLVGMMLRDEDVGMKLLIMFSPETWDT-----S
SEQ ID NO: 58	VMSALQEAQVQINQVHNWDPVGGSNENFLPLIKLVDRLLLVGMMLRDEDVGMKLLIMFSPETWDT-----S
SEQ ID NO: 59	VMSLQSAATHAVMNCRDPIGGNTNHFEPFLKFDQLLVIGLINDEELECRLIHPQAFD-----D
SEQ ID NO: 60	VISLGEAVAHGVSHCRDPIGGNYNNLFVPLLELCDALLVIGFEDDDDLKSLILIDPATF-----D
SEQ ID NO: 61	TIQMLTEAVKEGSLHARDPVGGTTEFLFVPLIKLFTYLLIMGIFHNEDLKHILQLEPSVFKEAAVPEEGGTPEKEISIEDAKLE--GE
SEQ ID NO: 62	TIQMLTEAVKEGSLHARDPVGGTTEFLFVPLIKLFTYLLIMGIFHNEDLKHILQLEPSVFKEAAVPEEGGTPEKEISIEDAKLE--GE

FIGURE 1M

SEQ ID NO: 2	FDKEGKDEHRKGLLHMKMAEGAKLQMCYLLQHLNDIQLRHRVEATIAFAHDFVGDLTQDLRRYTEIKQ-SDLP SAVA AAKKTREFRCP
SEQ ID NO: 128	FDKEGKDEHRKGLLHMKMAEGAKLQMCYLLQHLNDIQLRHRVEAIIAFAHDFVGDLTQDLRRYTEIKQ-SDLP SAVA AAKKTREFRCP
SEQ ID NO: 130	FDKEGKDEHRKGLLHMKMAEGAKLQMCYLLQHLNDIQLRHRVEAIIAFAHDFVGDLTQDLRRYTEIKQ-SDLP SAVA AAKKTREFRCP
SEQ ID NO: 144	FDKGGKDEHRKGLLHMKMAEGAKLQMCYLLQHLNDIQLRHRVEAIIAFAHDFVGDLTQDLRRYTEIKQ-SDLP SAVA AAKKTREFRCP
SEQ ID NO: 146	FDKEGKDEHRKGLLHMKMAEGAKLQMCYLLQHLNDIQLRHRVEAIIAFAHDFVGDLTQDLRRYTEIKQ-SDLP SAVA AAKKTREFRCP
SEQ ID NO: 4	FQKDPDEHRKGLLHMKMAEGAKLQMCYLLHHLCDIQLRHRVESIISFSYQFVNDIQIDQLRRYNEIKQ-SDLP SAVA AAKKTREFRCP
SEQ ID NO: 6	FQKDPDEHRKGLLHMKMAEGAKLQMCYLLHHLCDIQLRHRVESIISFSYQFVNDIQIDQLRRYNEIKQ-SDLP SAVA AAKKTREFRCP
SEQ ID NO: 8	FEKDGKDEHRKGLLTMKMAEGAKLQMCYLLHHLCDIQLRHRVEAIIAFAHDFVGDLTQDLRRYTEIKQ-SDLP SAVA AAKKTREFRCP
SEQ ID NO: 10	FEKDGKDEHRKGLLTMKMAEGAKLQMCYLLHHLCDIQLRHRVESIISFSYQFVNDIQIDQLRRYNEIKQ-SDLP SAVA AAKKTREFRCP
SEQ ID NO: 56	FEKDGKDEHRKGLLTMKMAEGAKLQMCYLLHHLCDIQLRHRVESIISFSYQFVNDIQIDQLRRYNEIKQ-SDLP SAVA AAKKTREFRCP
SEQ ID NO: 57	FEKDGKDEHRKGLLTMKMAEGAKLQMCYLLHHLCDIQLRHRVESIISFSYQFVNDIQIDQLRRYNEIKQ-SDLP SAVA AAKKTREFRCP
SEQ ID NO: 58	FEKDGKDEHRKGLLTMKMAEGAKLQMCYLLHHLCDIQLRHRVESIISFSYQFVNDIQIDQLRRYNEIKQ-SDLP SAVA AAKKTREFRCP
SEQ ID NO: 59	-ENYETGTTQGLTQLELAEPVKIQLVSIILDLHLCDIQLRHRVESIISFSYQFVNDIQIDQLRRYNEIKQ-SDLP SAVA AAKKTREFRCP
SEQ ID NO: 60	ETYKKGVSSETVGMQLQHLDEPVLKAMCFLQLHLCDIQLRHRVESIISFSYQFVNDIQIDQLRRYNEIKQ-SDLP SAVA AAKKTREFRCP
SEQ ID NO: 61	EEAKGKRPKKEGLLQMKLPEPVKLQMCYLLQHLCDIQLRHRVESIISFSYQFVNDIQIDQLRRYNEIKQ-SDLP SAVA AAKKTREFRCP
SEQ ID NO: 62	EEAKGKRPKKEGLLQMKLPEPVKLQMCYLLQHLCDIQLRHRVESIISFSYQFVNDIQIDQLRRYNEIKQ-SDLP SAVA AAKKTREFRCP

SEQ ID NO: 2	EQMNVILSFKHLEE-----EDKENCPCGGEELIARNNEFHDTLMAHVS LHALQEPDAAENQEP- AKPGAFGKLYNIINTVKELEEE
SEQ ID NO: 128	EQMNAIILSFKHLEE-----EDKENCPCGGEELIARNNEFHDTLMAHVS LHALQEPDAAENQEP- AKPGAFGKLYNIINTVKELEEE
SEQ ID NO: 130	EQMNAIILSFKHLEE-----EDKENCPCGGEELIARNNEFHDTLMAHVS LHALQEPDAAENQEP- AKPGAFGKLYNIINTVKELEEE
SEQ ID NO: 144	EQMNAIILSFKHLEE-----EDKENCPCGGEELIARNNEFHDTLMAHVS LHALQEPDAAENQEP- AKPGAFGKLYNIINTVKELEEE
SEQ ID NO: 146	EQMNAIILSFKHLEE-----EDKENCPCGGEELIARNNEFHDTLMAHVS LHALQEPDAAENQEP- AKPGAFGKLYNIINTVKELEEE
SEQ ID NO: 4	EQMNAIILGFKNLDI-----DDKENCLIGDELRRERNEFNEKLMKQIISLVALQSEDDKSDLNNLNKEGKIKQFYNF INAVKDEANE
SEQ ID NO: 6	EQMNAIILGFKNLDS-----DDKENCLIGDELRRERNEFNEKLMKQIISLVALQSEDDKSDLNNLNKEGKIKQFYNF INAVKDEANE
SEQ ID NO: 8	EQMNAIILGFKNLEE-----GDIENCPCGDELRRERLNSFHEKLMHKVSLALQEPSEEEASAEVKKPNALNRLYNF INAVKELEET
SEQ ID NO: 10	EQMNQILCFKNLEP-----DDQDNCTCGLELRGLGDFHDSLMQKVS LNALQEPDGVGEGTAIEEVKTGPTITKIYNF INTVKELEEG
SEQ ID NO: 56	EQMNQILCFKNLEP-----DDQDNCTCGLELRGLGDFHDSLMQKVS LNALQEPDGVGEGTAIEEVKTGPTITKIYNF INTVKELEEG
SEQ ID NO: 57	EQMNAIILGKYNLEE-----DDLNASCGPELRNLTIEFHEKLMGKVS LNALQEPDGVGEGTAIEEVKTGPTITKIYNF INTVKELEEG
SEQ ID NO: 58	EQMFRLLMCKVKEERDPELMEEDADVDQCPMAEGLQQQLRDFCELLVGKIGNVKEGSDDLQALIESEEG----SWVDSFARIIVKVPPP
SEQ ID NO: 59	EQMRLLHLHFKDG-----DDGMCPCREDLRSVLLEFSTLAKHCGVHETQE-EKSTDSRGVIR-----RFLSWLSGSR--KDA
SEQ ID NO: 60	EQINMLLNFKD-----DKSECPCEPIRDQLLDHFEDLMTCHGIELDEGSLDGSNDLTIRG-----RLLSLVEKVTYLLKKK
SEQ ID NO: 61	EQINMLLNFKD-----DKSECPCEPIRDQLLDHFEDLMTCHGIELDEGSLDGSNDLTIRG-----RLLSLVEKVTYLLKKK
SEQ ID NO: 62	EQINMLLNFKD-----DKSECPCEPIRDQLLDHFEDLMTCHGIELDEGSLDGSNDLTIRG-----RLLSLVEKVTYLLKKK

FIGURE 1N

SEQ ID NO: 2	AKAIEPPKKTPEEKFRKVLIIQTIVNAAEESQIETPKLVREMFSLVRQYDAVCELIRALEKTYVINAKTKLDVAEMWVGLSQIRALLPV
SEQ ID NO: 128	AKAIEPPKKTPEEKFRKVLIIQTIVNAAEESQIETPKLVREMFSLVRQYDAVCELIRALEKTYVINAKTKLDVAEMWVGLSQIRALLPV
SEQ ID NO: 130	AKAIEPPKKTPEEKFRKVLIIQTIVNAAEESQIETPKLVREMFSLVRQYDAVCELIRALEKTYVINAKTKLDVAGMWVGLSQIRALLPV
SEQ ID NO: 144	AKAIEPPKKTPEEKFRKVLIIQTIVNAAEESQIETPKLVREMFSLVRQYDAVCELIRALEKTYVINAKTKLDVAGMWVGLSQIRALLPV
SEQ ID NO: 146	AKAIEPPKKTPEEKFRKVLIIQTIVNAAEESQIETPKLVREMFSLVRQYDAVCELIRALEKTYVINAKTKLDVAGMWVGLSQIRALLPV
SEQ ID NO: 4	DGLN-EHEKKIPEEIEFRKVLIIQTIVNAAEESQIETPKLVREMFSLVRQYDAVCELIRALEKTYVINAKTKLDVAGMWVGLSQIRALLPV
SEQ ID NO: 6	NGLN-EHEKKIPEEIEFRKVLIIQTIVNAAEESQIETPKLVREMFSLVRQYDAVCELIRALEKTYVINAKTKLDVAGMWVGLSQIRALLPV
SEQ ID NO: 8	PQIEEPEKKTPEEIEFRKVLIIQTIVNAAEESQIETPKLVREMFSLVRQYDAVCELIRALEKTYVINAKTKLDVAGMWVGLSQIRALLPV
SEQ ID NO: 10	PKEVEPEKKTPEEIEFRKVLIIQTIVNAAEESQIETPKLVREMFSLVRQYDAVCELIRALEKTYVINAKTKLDVAGMWVGLSQIRALLPV
SEQ ID NO: 56	PKEVEPEKKTPEEIEFRKVLIIQTIVNAAEESQIETPKLVREMFSLVRQYDAVCELIRALEKTYVINAKTKLDVAGMWVGLSQIRALLPV
SEQ ID NO: 57	PKEVEPEKKTPEEIEFRKVLIIQTIVNAAEESQIETPKLVREMFSLVRQYDAVCELIRALEKTYVINAKTKLDVAGMWVGLSQIRALLPV
SEQ ID NO: 58	VLEEGMEMQKGTQNFREIIVTMLREWAQADFIESKSLIRNMFRLLRQYSGIREIRDAESQTYVFHERNEKDVDTDFLVYLIQIRELLTV
SEQ ID NO: 59	SPAGAILQEKFSDSLHLISNTMIKAAEKKHIEDPTLVREMFNLLHRQYDGVGELCSALQKSYVSSNQRDDIVHLLTSLGQIRSLTIV
SEQ ID NO: 60	QAEKPVASDSRKCSSLQQLISETMVRWAQESVIEDPELVAMFVLLHRQYDGVGELGGLVRLALPKTYTINGVSVEDTINLLASLGQIRSLTIV
SEQ ID NO: 61	QTEKPVESDSRKSSTLQQLISETMVRWAQESVIEDPELVAMFVLLHRQYDGVGELGGLVRLALPKTYTINGVSVEDTINLLASLGQIRSLTIV
SEQ ID NO: 62	QAEKPVESDSKKSSTLQQLISETMVRWAQESVIEDPELVAMFVLLHRQYDGVGELGGLVRLALPKTYTINGVSVEDTINLLASLGQIRSLTIV
SEQ ID NO: 2	QMSQEEEEELMRKRLWKLNNHTFFQHPDDLIRVLRVHENVMVMMNTLGRRAQAQS---DAQPSSQPVAED-----
SEQ ID NO: 128	QMSQEEEEELMRKRLWKLNNHTFFQHPDDLIRVLRVHENVMVMMNTLGRRAQAQS---DAQPSSQPVAED-----
SEQ ID NO: 130	QMSQEEEEELMRKRLWKLNNHTFFQHPDDLIRVLRVHENVMVMMNTLGRRAQAQS---DAQPSSQPVAED-----
SEQ ID NO: 144	QMSQEEEEELMRKRLWKLNNHTFFQHPDDLIRVLRVHENVMVMMNTLGRRAQAQS---DAQPSSQPVAED-----
SEQ ID NO: 146	QMSQEEEEELMRKRLWKLNNHTFFQHPDDLIRVLRVHENVMVMMNTLGRRAQAQS---DAQPSSQPVAED-----
SEQ ID NO: 4	QMSQEEEEELMRKRLWKLNNHTFFQHPDDLIRVLRVHENVMVMMNTLGRRAQAQS---DAQPSSQPVAED-----
SEQ ID NO: 6	QMSQEEEEELMRKRLWKLNNHTFFQHPDDLIRVLRVHENVMVMMNTLGRRAQAQS---DAQPSSQPVAED-----
SEQ ID NO: 8	QMSQEEEEELMRKRLWKLNNHTFFQHPDDLIRVLRVHENVMVMMNTLGRRAQAQS---DAQPSSQPVAED-----
SEQ ID NO: 10	QMSQEEEEELMRKRLWKLNNHTFFQHPDDLIRVLRVHENVMVMMNTLGRRAQAQS---DAQPSSQPVAED-----
SEQ ID NO: 56	QMSQEEEEELMRKRLWKLNNHTFFQHPDDLIRVLRVHENVMVMMNTLGRRAQAQS---DAQPSSQPVAED-----
SEQ ID NO: 57	QMSQEEEEELMRKRLWKLNNHTFFQHPDDLIRVLRVHENVMVMMNTLGRRAQAQS---DAQPSSQPVAED-----
SEQ ID NO: 58	QFEHTEEAAILKRGWLKLMNNRIFFQHPDMLRLSLVHENVMSIMMNIILTAQQG-----TVEHEGDELKEK-----
SEQ ID NO: 59	QMGSVEEEAALIKHLWEVTDNKKVFYQHPDMLRALCVHETVMNVVNVNLEKHQTSIQLTSDDEEAESSAQGGVTGASTAAPPKTQVCVYRF
SEQ ID NO: 60	RMGKEEEKLMIRGLGDIRMNNKVYFQHPNLMRALGMHETVMEVMNVNVLGGGE-----
SEQ ID NO: 61	RMGKEEEKLMIRGLGDIRMNNKVYFQHPNLMRALGMHETVMEVMNVNVLGGGE-----
SEQ ID NO: 62	RMGKEEEKLMIRGLGDIRMNNKVYFQHPNLMRALGMHETVMEVMNVNVLGGGE-----

FIGURE 10

SEQ ID NO: 2	-----NKEKDTSHMVMVACCRFLCYFCRTGRNQKAMFDHDFLLENSNILLRPSLRGSGTPLDVAYSSLMNTELALALREHYLEK
SEQ ID NO: 128	-----SKEKDTSHMVMVACCRFLCYFCRTGRNQKAMFDHDFLLENSNILLRPSLRGSGTPLDVAYSSLMNTELALALREHYLEK
SEQ ID NO: 130	-----NKEKDTSHMVMVACCRFLCYFCRTGRNQKAMFDHDFLLENSNILLRPSLRGSGTPLDVAYSSLMNTELALALREHYLEK
SEQ ID NO: 144	-----NKEKDTSHMVMVACCRFLCYFCRTGRNQKAMFDHDFLLENSNILLRPSLRGSGTPLDVAYSSLMNTELALALREHYLEK
SEQ ID NO: 146	-----NKEKDTSHMVMVACCRFLCYFCRTGRNQKAMFDHDFLLENSNILLRPSLRGSGTPLDVAYSSLMNTELALALREHYLEK
SEQ ID NO: 4	-----PKEKDTSHMVMVACCRFLCYFCRTSRNQKAMFDHDFLLENSNILLRPSLRGSGTPLDVAYSSLMNTELALALREHYLEK
SEQ ID NO: 6	-----PKEKDTSHMVMVACCRFLCYFCRTSRNQKAMFDHDFLLENSNILLRPSLRGSGTPLDVAYSSLMNTELALALREHYLEK
SEQ ID NO: 8	-----AKEKDTSHMVMVACCRFLCYFCRTSRNQKAMFDHDFLLENSNILLRPSLRGSGTPLDVAYSSLMNTELALALREHYLEK
SEQ ID NO: 10	-----SKEKDTSHMVMVACCRFLCYFCRTGRNQKAMFDHDFLLENSNILLRPSLRGSGTPLDVAYSSLMNTELALALREHYLEK
SEQ ID NO: 56	-----SKEKDTSHMVMVACCRFLCYFCRTGRNQKAMFDHDFLLENSNILLRPSLRGSGTPLDVAYSSLMNTELALALREHYLEK
SEQ ID NO: 57	-----PKEKDTSHMVMVACCRFLCYFCRTGRNQKAMFDHDFLLENSNILLRPSLRGSGTPLDVAYSSLMNTELALALREHYLEK
SEQ ID NO: 58	-----APIKDASEMVMVACCRFLCYFCRTSRNQKAMFEHLSFLLDNATMLLARPSLRGSGTPLDVAYSSFMNDNELALALKEEELDK
SEQ ID NO: 59	LARRARMCHSKDRFARALIAGCCRFLCYFCRTSRNQKAMFDHDFLLENSNILLRPSLRGSGTPLDVAYSSLMNTELALALREHYLEK
SEQ ID NO: 60	-----SKEITFPKMWANCCRFLCYFCRISRNQKAMFDHLSYLLENSVGLASPMRGSTPLDVAAAASVMDNNELALALREPDLEK
SEQ ID NO: 61	-----SKEITFPKMWANCCRFLCYFCRISRNQKAMFDHLSYLLENSVGLASPMRGSTPLDVAAAASVMDNNELALALREPDLEK
SEQ ID NO: 62	-----SKEITFPKMWANCCRFLCYFCRISRNQKAMFDHLSYLLENSVGLASPMRGSTPLDVAAAASVMDNNELALALREPDLEK
SEQ ID NO: 2	IAV-YLSRCGLQSNSELVEKGYDGLGWDPVEGERYLDLRFPCVWNGESVEENANLVIRLLIRRPECLGPALRGEG-EGLLKAIIVDANKM
SEQ ID NO: 128	IAV-YLSRCGLQSNSELVEKGYDGLGWDPVEGERYLDLRFPCVWNGESVEENANLVIRLLIRRPECLGPALRGEG-EGLLKAIIVDANKM
SEQ ID NO: 130	IAV-YLSRCGLQSNSELVEKGYDGLGWDPVEGERYLDLRFPCVWNGESVEENANLVIRLLIRRPECLGPALRGEG-EGLLKAIIVDANKM
SEQ ID NO: 144	IAV-YLSRCGLQSNSELVEKGYDGLGWDPVEGERYLDLRFPCVWNGESVEENANLVIRLLIRRPECLGPALRGEG-EGLLKAIIVDANKM
SEQ ID NO: 146	IAV-YLSRCGLQSNSELVEKGYDGLGWDPVEGERYLDLRFPCVWNGESVEENANLVIRLLIRRPECLGPALRGEG-EGLLKAIIVDANKM
SEQ ID NO: 4	IAI-YLSRCGLQSNSELIEKGYDGLGWDPVEGERYLDLRFPCVWNGESVEENANLVIRLLIRRPECLGPALRGEG-EGLLRAIIVDANKM
SEQ ID NO: 6	IAI-YLSRCGLQSNSELIEKGYDGLGWDPVEGERYLDLRFPCVWNGESVEENANLVIRLLIRRPECLGPALRGEG-EGLLRAIIVDANKM
SEQ ID NO: 8	IAI-YLSRCGLQSNSELIEKGYDGLGWDPVEGERYLDLRFPCVWNGESVEENANLVIRLLIRRPECLGPALRGEG-EGLLRAIIVDANKM
SEQ ID NO: 10	IAV-YLSRCGLQSNSELVEKGYDGLGWDPVEGERYDPLRYCVWNGESVEENANLVIRLLIRRPECLGPALRGEG-EGLFRAIVEANRM
SEQ ID NO: 56	IAV-YLSRCGLQSNSELVEKGYDGLGWDPVEGERYDPLRYCVWNGESVEENANLVIRLLIRRPECLGPALRGEG-EGLFRAIVEANRM
SEQ ID NO: 57	IAI-YLSRCGLQSNSELIERGYDPLGWDPVEGERYDPLRYCVWNGESVEENANLVIRLLIRRPECLGPALRGEG-EGLLKAIIVDANKM
SEQ ID NO: 58	VAV-YLSRCGLQSNSELITKGYPDIGNDPTDGERYDPLRYCVWNGESVEENANLVIRLLIRRPECLGVALKGEQ-QLFSAFKEAIAL
SEQ ID NO: 59	VIT-FLSRCGVQDNARLRAMGNPYLDGTPLDGERYDPLRYCVWNGESVEENANLVIRLLIRRPECLGPALRGEG-KGLLAAMEEAIDL
SEQ ID NO: 60	VVARYLAGCGLQSCQMLVSKGYDPIGNPVEGERYDPLRYCVWNGESVEENANLVIRLLIRRPECFGPALRGEGGNGLLAAMEEAIKI
SEQ ID NO: 61	VVR-YLAGCGLQSCQMLVSKGYDPIGNPVEGERYDPLRYCVWNGESVEENANLVIRLLIRRPECFGPALRGEGGNGLLAAMEEAIKI
SEQ ID NO: 62	VVR-YLAGCGLQSCQMLVSKGYDPIGNPVEGERYDPLRYCVWNGESVEENANLVIRLLIRRPECFGPALRGEGGNGLLAAMEEAIKI

FIGURE 1P

SEQ ID NO: 2	SERADRRKRLRE-----MEQ--EGDVNFSHPLPESED--EDYIDTGAAILNFYCTLVLDLLGRCAPDAGVIALGKNESLRARAILRSLVP
SEQ ID NO: 128	SERADRRKRLRE-----MEQ--EGDVNFSHPLPESED--EDYIDTGAAILNFYCTLVLDLLGRCAPDAGVIALGKNESLRARAILRSLVP
SEQ ID NO: 130	SERADRRKRLRE-----MEQ--EGDVNFSHPLPESED--EDYIDTGAAILNFYCTLVLDLLGRCAPDAGVIALGKNESLRARAILRSLVP
SEQ ID NO: 144	SERADRRKRLRE-----MEQ--EGDVNFSHPLPESED--EDYIDTGAAILNFYCTLVLDLLGRCAPDAGVIALGKNESLRARAILRSLVP
SEQ ID NO: 146	SERADRRKRLRE-----MEQ--EGDVNFSHPLPESED--EDYIDTGAAILNFYCTLVLDLLGRCAPDAGVIALGKNESLRARAILRSLVP
SEQ ID NO: 4	SERITERRKFLE-----ES--GNQENIQLDHPLPESEDD--EDYIDTGAAILNFYCTLVLDLLGRCAPDSSVIALGKNESLRARAILRSLVP
SEQ ID NO: 6	SERIAERRKFLE-----ES--GNQENIQLDHPLPESEDD--EDYIDTGAAILNFYCTLVLDLLGRCAPDSSVIALGKNESLRARAILRSLVP
SEQ ID NO: 8	SERIADRRKVMQD-----EPEGTTVMVHFEHPLPESEDD--EDYIDTGAAILAFYCTLVLDLLGRCAPDSSVIAQGKNESLRARAILRSLVP
SEQ ID NO: 10	SERISDRCKMQD-----EAEGTIAGLNFTHPLPEGEED--EDYIDTGAAILNFYCTLVLDLLGRCAPDASVIEQGKNESLRARAILRSLVP
SEQ ID NO: 56	SERISDRCKMQD-----EAEGTIAGLNFTHPLPEGEED--EDYIDTGAAILNFYCTLVLDLLGRCAPDASVIEQGKNESLRARAILRSLVP
SEQ ID NO: 57	SERISERRKMQD-----EAEGTITGLNFSHPLPEGEED--EDYIDTGAAILCFYCTLVLDLLGRCAPDAAVIEQGKNESLRARAILRSLVP
SEQ ID NO: 58	SEDIRLLENDSHP-----SLSSGLLGENPTYPSKDAEGEDYIDLGAATLDFYSSLVLDLLAKCAPDPMALQAGKGDSLARAILRSLIS
SEQ ID NO: 59	SETAEEGYLISAPTMATISEEDGEVRPIDASGQDEEGDED--EDDVDTGGAILTFYATLIDLGRCAPDENRISQGRTEPQIRAILQSLVP
SEQ ID NO: 60	AEDPSR-----DGPSTSGSSKTLDEIEEEE--DDTIHMGNAIMTFYALIDLGRCAPEMHLIHAGKGEAIRIRSILRSLIP
SEQ ID NO: 61	AEDPSR-----DGPSTSGSSKTLDEIEEEE--DDTIHMGNAIMTFYALIDLGRCAPEMHLIHAGKGEAIRIRSILRSLIP
SEQ ID NO: 62	AEDPSR-----DGPSPNSGSSKTLDEIEEEE--DDTIHMGNAIMTFYSALIDLGRCAPEMHLIHAGKGEAIRIRSILRSLIP
SEQ ID NO: 2	LEDLQGVLSLRFTLNNPAA-----GEERP KSDMP SGLIPGHKQSVGLFLGRVVGITQELFYKLLLEAFPLDLRAATMLDRNDGCS
SEQ ID NO: 128	LEDLQGVLSLRFTLNNPAA-----GEERP KSDMP SGLIPGHKQSVGLFLGRVVGITQELFYKLLLEAFPLDLRAATMLDRNDGCS
SEQ ID NO: 130	LEDLQGVLSLRFTLNNPAA-----GEERP KSDMP SGLIPGHKQSVGLFLGRVVGITQELFYKLLLEAFPLDLRAATMLDRNDGCS
SEQ ID NO: 144	LEDLQGVLSLRFTLNNPAA-----GEERP KSDMP SGLIPGHKQSVGLFLGRVVGITQELFYKLLLEAFPLDLRAATMLDRNDGCS
SEQ ID NO: 146	LEDLQGVLSLRFTLNNPAA-----GEERP KSDMP SGLIPGHKQSVGLFLGRVVGITQELFYKLLLEAFPLDLRAATMLDRNDGCS
SEQ ID NO: 4	LEDLHGVLSLRFTLQNPAA-----GQDRPKSDMP SGLIPGHKQSVGLFLGRVVGITQELFYKLLLEAFPLDLRTATMLDRNDGLES
SEQ ID NO: 6	LEDLHGVLSLRFTLQNPAA-----GQDRPKSDMP SGLIPGHKQSVGLFLGRVVGITQELFYKLLLEAFPLDLRTATMLDRNDGLES
SEQ ID NO: 8	LEDLQGVLSLKFTLQNPAA-----GEERP KSDMP SGLIPGHKQSVGLFLGRVVGITQELFYKLLLEAFPLDLRAATMLDRNDGSES
SEQ ID NO: 10	LEDLQGVLSLKFTLSQAP-----GEEKPKSDMP SGLIPNNKQSVGLFLGRVVGITQELFYKLLLEAFPLDLRTATILDKSDGSES
SEQ ID NO: 56	LEDLQGVLSLKFTLSQAP-----GEEKPKSDMP SGLIPNNKQSVGLFLGRVVGITQELFYKLLLEAFPLDLRTATILDKSDGSES
SEQ ID NO: 57	LEDLQGVLSLKFTLTPAL-----GEDRP KSDMP SGLIPGHKQSVGLFLGRVVGITQELFYKLLLEAFPLDLRAATMLDRSDGSES
SEQ ID NO: 58	LDDLQGVLSLKFTLIPNLAAP-----SIEDTGPLLIPNNHKGSVLLFLDRVYGIDQDMLFHVLEQSFPLDLRAATMLDRSDPRALES
SEQ ID NO: 59	LDDLGVNLNKFILPSPQKIYEKKDDGAGKPLGADLKG--LTPVHKEAMLLFLGRVYGVGNQELFFELLEVGFLPLDLRAATMLDTPTHDH
SEQ ID NO: 60	LGDLVGVVISIAFQMPTIAK-----DGKVVPEPDM SAGFCDDHKAAMVFLDRVYGVIEVQDFLLHLLLEVGFLPLDLRAAASLDTAALSAT
SEQ ID NO: 61	LGDLVGVVISIAFQMPTIAK-----DGNVVPEPDM SAGFCDDHKAAMVFLDRVYGVIEVQDFLLHLLLEVGFLPLDLRAAASLDTAALSAT
SEQ ID NO: 62	LGDLVGVVISIAFQMPTIAK-----DGNVVPEPDM SAGFCDDHKAAMVFLDRVYGVIEVQDFLLHLLLEVGFLPLDLRAAASLDTAALSAT

FIGURE 1Q

SEQ ID NO: 2 DMALSMNRYIGNSILPLLIKHAYFYNEAENYASLLDATHVTYVRLSKNRMLTKGQREAVSDFLVALTSAMQPSMLLKLLRKLTVDVSKLS
SEQ ID NO: 128 DMALSMNRYIGNSILPLLIKHAYFYNEAENYASLLDATHVTYVRLSKNRMLTKGQREAVSDFLVALTSAMQPSMLLKLLRKLTVDVSKLS
SEQ ID NO: 130 DMALSMNRYIGNSILPLLIKHAYFYNEAENYASLLDATHVTYVRLSKNRMLTKGQREAVSDFLVALTSAMQPSMLLKLLRKLTVDVSKLS
SEQ ID NO: 144 DMALSMNRYIGNSILPLLIKHAYFYNEAENYASLLDATHVTYVRLSKNRMLTKGQREAVSDFLVALTSAMQPSMLLKLLRKLTVDVSKLS
SEQ ID NO: 146 DMALSMNRYIGNSILPLLIKHAYFYNEAENYASLLDATHVTYVRLSKNRMLTKGQREAVSDFLVALTSAMQPSMLLKLLRKLTVDVSKLS
SEQ ID NO: 4 DMALAMNRYIGKSVLPLLIGHSKFYSESGNYANLLDATHVTYVRLSKNRMLTKGQREAVSDFLVALTSQMPQPSMLLKLLRKLTVDVSNLS
SEQ ID NO: 6 DMALAMNRYIGNSVLPLLIGHSKFYSESDNYANLLDATHVTYVRLSKNRMLTKGQREAVSDFLVALTSQMPQPSMLLKLLRKLTVDVSNLS
SEQ ID NO: 8 DMALAMNRYIGNSILPLLIHSHKIFYNEADNYASLLDATHVTYVRLSKNRMLTKGQREAVSDFLVALTSQMPQPSMLLKLLRKLTVDVSKLT
SEQ ID NO: 10 DMALAMNRYIGNSILPLLIHSHKIFYNEAENYASLLDATHVTYVRLSKNRMLTKGQREAVSDFLVALTSQMPQPSMLLKLLRKLTVDVSKLS
SEQ ID NO: 56 DMALAMNRYIGNSILPLLIHSHKIFYNEAENYASLLDATHVTYVRLSKNRMLTKGQREAVSDFLVALTSQMPQPSMLLKLLRKLTVDVSKLS
SEQ ID NO: 57 DMALAMNRYIGNSILPLLIHSHKIFYNEAENYASLLDATHVTYVRLSKNRMLTKGQREAVSDFLVALTSQMPQPSMLLKLLRKLTVDVSKLS
SEQ ID NO: 58 DTALALNRYLCNSVLPLLTNHSHFFADAHHASLLDATHVTYVRLSKNRMLTKGQREAVSDFLVALTSQMPQPSMLLKLLRKLTVDVSKLS
SEQ ID NO: 59 DMALALNRYICNSVLPLLTRHSEMFESADQFASLLDSTLHVTYVRLASCRSLTRGQRTVADFLVALTRSLKPSMMQRLRLRKLINDVPVLA
SEQ ID NO: 60 DMALALNRYLCNTAVLPPLTRCARLRFAGTEHHASLIDSLHVTYVRLSKGCSLTKAQSDSIEVCLLSICGQLRPSMMQHLRLRRLVFDVPLLN
SEQ ID NO: 61 DMALALNRYLCNTAVLPPLTRCARLRFAGTEHHASLIDSLHVTYVRLSKGCSLTKAQSDSIEVCLLSICGQLRPSMMQHLRLRRLVFDVPLLN
SEQ ID NO: 62 DMALALNRYLCNTAVLPPLTRCARLRFAGTEHHASLIDSLHVTYVRLSKGCSLTKAQSDSIEVCLLSICGQLRPSMMQHLRLRRLVFDVPLLN

SEQ ID NO: 2 EY-TTVALRLTLHYERCAKYYGSGTGAG-QGAFGASSDEEKRLTMMLFSSIFDLSKMDYEPFELFGKALPCLIAIGCALPPDYTLTKNYD
SEQ ID NO: 128 EY-TTVALRLTLHYERCAKYYGSGTGAG-QGAFGASSDEEKRLTMMLFSSIFDLSKMDYEPFELFGKALPCLIAIGCALPPDYTLTKNYD
SEQ ID NO: 130 EY-TTVALRLTLHYERCAKYYGSGTGAG-QGAFGASSDEEKRLTMMLFSSIFDLSKMDYEPFELFGKALPCLIAIGCALPPDYTLTKNYD
SEQ ID NO: 144 EY-TTVALRLTLHYERCAKYYGSGTGAG-QGAFGASSDEEKRLTMMLFSSIFDLSKMDYEPFELFGKALPCLIAIGCALPPDYTLTKNYD
SEQ ID NO: 146 EY-TTVALRLTLHYERCAKYYGSGTGAG-QGAFGASSDEEKRLTMMLFSSIFDLSKMDYEPFELFGKALPCLIAIGCALPPDYTLTKNYD
SEQ ID NO: 4 EY-TTVALRLTLHYDRCAKYYGSGTGAG-QGIYGASSDEEKRLTMMLFSSIFDLSKMDYEPFELFGKALPCLIAIGCALPPDYTLTKNYD
SEQ ID NO: 6 EY-TTVALRLTLHYDRCAKYYGSGTGAG-QGIYGASSDEEKRLTMMLFSSIFDLSKMDYEPFELFGKALPCLIAIGCALPPDYTLTKNYD
SEQ ID NO: 8 EY-TTVALRLTLHYDRCAKYYGSGTGAG-QGLYGSSSDEEKRLTMMLFSSIFDLSKMDYEPFELFGKALPCLIAIGCALPPDYTLTKNYD
SEQ ID NO: 10 EY-TTVALRLTLHFDRCAKYYGSGTGAG-QGSYGASSDEEKRLTMMLFSSIFDLSKMDYEPFELFGKALPCLIAIGCALPPDYTLTKNYD
SEQ ID NO: 56 EY-TTVALRLTLHFDRCAKYYGSGTGAG-QGSYGASSDEEKRLTMMLFSSIFDLSKMDYEPFELFGKALPCLIAIGCALPPDYTLTKNYD
SEQ ID NO: 57 EY-TTVALRLTLHYERCAKYYGTTGGQASQFASDEEKRLTMMLFSSIFDLSKMDYEPFELFGKALPCLIAIGCALPPDYTLTKNSD
SEQ ID NO: 58 DMNVLVPLRLITLHYERCCKYYGSGNH-----YGVASEQEKRLSMLLFDALFTGLFDALAEKYEDEELFDRLPCLTAIGSALPPDYMSYN--
SEQ ID NO: 59 EY-SYVALKILQLHYERCVSYYGSGNG--WGSYGAANDEEKRLTMMLFTGLFDALAEKYEDEELFDRLPCLTAIGSALPPDYMSYN--
SEQ ID NO: 60 EH-AKMPLKLLTNHYERCWKYYCLPGG--WGNFGAASEEELHLSRKLFWGIFDALSQKYEQELFKLALPCLSAVAGALPPDYMESNY--
SEQ ID NO: 61 EH-AKMPLKLLTNHYERCWKYYCLPGG--WGNFGAASEEELHLSRKLFWGIFDALSQKYEQELFKLALPCLSAVAGALPPDYMESNY--
SEQ ID NO: 62 EH-AKMPLKLLTNHYERCWKYYCLPGG--WGNFGAASEEELHLSRKLFWGIFDALSQKYEQELFKLALPCLSAVAGALPPDYMESNY--

FIGURE 1R

SEQ ID NO: 2	DEFYKQEQAAGDLDPQYDPPQINTSSVALNNDLNTIVQKFSEHYHDAWASRKLENGWVYEGWSDSQKTHPRLKPYNMLNDY-----EK
SEQ ID NO: 128	DEFYKQEQAAGDLDPQYDPPQINTSSVALNNDLNTIVQKFSEHYHDAWASRKLENGWVYEGWSDSQKTHPRLKPYNMLNDY-----EK
SEQ ID NO: 130	DEFYKQEQAAGDLDPQYDPPQINTSSVALNNDLNTIVQKFSEHYHDAWASRKLENGWVYEGWSDSQKTHPRLKPYNMLNDY-----EK
SEQ ID NO: 144	GEFYKQEQAAGDLDPQYDPPQINTSSVALNNDLNTIVQKFSEHYHDAWASRKLENGWVYEGWSDSQKTHPRLKPYNMLNDY-----EK
SEQ ID NO: 146	DEFYKQEQAAGDLDPQYDPPQINTSSVALNNDLNTIVQKFSEHYHDAWASRKLENGWVYEGWSDSQKTHPRLKPYNMLNDY-----EK
SEQ ID NO: 4	DEWYGSQNIQGPSDGPYPNPQINTNSIVLDNDLNSIVHVKFSEHYHDAWANRKLKLENGWVYGEQFNDVNKSHPRKLPYMMMLSEY-----EK
SEQ ID NO: 6	DEWYGSQNIQGPSDGPYPNPQINTNSIVLDNDLNSIVHVKFSEHYHDAWANRKLKLENGWVYGEQFNDVNKSHPRKLPYMMMLSEY-----EK
SEQ ID NO: 8	DELYGARDSQAGSDGPYPNPQINTNSIVLDNDLNSIVHVKFSEHYHDAWASRRLEGGWVYGDQWSDSQKTHPRLKPYNMLNDYVEPSIER
SEQ ID NO: 10	EDYYGRQMG--APDQPYMPNPIDTNNVHLDNDLNSIVQKFSEHYHDAWASRRLEGGWVYGDQWSDSQKTHPRLKPYNMLSEY-----ER
SEQ ID NO: 56	EDYYGRQMG--APDQPYMPNPIDTNNVHLDNDLNSIVQKFSEHYHDAWASRRLEGGWVYGDQWSDSQKTHPRLKPYNMLSEY-----ER
SEQ ID NO: 57	DDLKGKPTGG--EGAWIPRTVDVSRCEINRDLEKMTLFAEHFHDWSASRKLEKGVVHGDLYSRANFTHPRLKPYNMLKOF-----EK
SEQ ID NO: 58	DVRNKRREE--FDADGIYQPKPVDNKNVLLNESLFSDFAEHLHDSWALAMFNDGWTGTHGEAENSAMKESCMRLRPYKTLTK-----EK
SEQ ID NO: 59	DESYVRESC--MDSEGNFNPQVDTSNITPEKLEYFINKYAEHSHDKWMDKLANGWVYGEIYSDSKIQPLMKPYKLLSEK-----EK
SEQ ID NO: 60	VSMMEKQSS--MDSEGNFNPQVDTSNITPEKLEYFINKYAEHSHDKWMDKLANGWVYGEIYSDSKIQPLMKPYKLLSEK-----EK
SEQ ID NO: 61	VSMMEKQSS--MDSEGNFNPQVDTSNITPEKLEYFINKYAEHSHDKWMDKLANGWVYGEIYSDSKIQPLMKPYKLLSEK-----EK
SEQ ID NO: 62	VSMMEKQSS--MDSEGNFNPQVDTSNITPEKLEYFINKYAEHSHDKWMDKLANGWVYGEIYSDSKIQPLMKPYKLLSEK-----EK
SEQ ID NO: 2	ERYKEPVRESLKALLAIGWSVEHSEVDIPSNRRSSMRQSKSGGRPPEIVT--DSATPFNYPNHPVDMTNLTLSREMQNMAERLADNAHD
SEQ ID NO: 128	ERYKEPVRESLKALLAIGWSVEHSEVDIPSNRRSSMRQSKSGGRPPEIVT--DSATPFNYPNHPVDMTNLTLSREMQNMAERLADNAHD
SEQ ID NO: 130	ERYKEPVRESLKALLAIGWSVEHSEVDIPSNRRSSMRQSKSGGRPPEIVT--DSATPFNYPNHPVDMTNLTLSREMQNMAERLADNAHD
SEQ ID NO: 144	ERYKEPVRESLKALLAIGWSVEHSEVDIPSNRRSSMRQSKSGGRPPEIVT--DSATPFNYPNHPVDMTNLTLSREMQNMAERLADNAHD
SEQ ID NO: 146	ERYKEPVRESLKALLAIGWSVEHSEVDIPSNRRSSMRQSKSGGRPPEIVT--DSATPFNYPNHPVDMTNLTLSREMQNMAERLADNAHD
SEQ ID NO: 4	ELYKEPVRESLKALLAIGWSIEHSENDAPLNRGVSRRQSK-----SN-----ENVTPFDYHPNPIDMTNLTLTLSREMQNMAERLAENSHD
SEQ ID NO: 6	ELYKEPVRESLKALLAIGWSIEHSENDAPLNRGVSRRQSK-----SN-----ENVTPFDYHPNPIDMTNLTLTLSREMQNMAERLAENSHD
SEQ ID NO: 8	ERYKEPVRESLKALLAIGWTVHEHSEADVPLTSRGSIRRRQSK-----PNAMV--DSSTPFNYPNHPIDMTNLTLSREMQNMAERLAENSHD
SEQ ID NO: 10	ERYRDPVRECLKGLLAIGWTVHEHSEVPLNHRGSTRRQSK-----PQINE--GSPFNYPNHPVDMSNLTLSREMQNMAERLAENSHD
SEQ ID NO: 56	ERYRDPVRECLKGLLAIGWTVHEHSEVPLNHRGSTRRQSK-----PQINEFQNEGSPFNYPNHPVDMSNLTLSREMQNMAERLAENSHD
SEQ ID NO: 57	ERYRDPVRECLKGLLAIGWTVHEHSEVPLNHRGSTRRQSK-----PNLELQDGTGSPFNYPNHPVDMTNLTLSREMQNMAERLAENSHD
SEQ ID NO: 58	SFYKERCSECLKALMAWNYSEFEMDRDAN-DRASAARTLSG-----TSISNFAKPIDLSMTLEKDMVNAEAKMAEHSHL
SEQ ID NO: 59	DSYREPVRCEIKALLAWGWSVERSKASEQQSAHRPRRLSK-----ASLGA--MESPHGYNPRPIDVSNITLTLSREMQNMAERLAENSHD
SEQ ID NO: 60	EIYRWPIKESLKTMLAWGWRITEREGDSMALYNRRRISQ-----TSQVS-----IDAAHGYSRAIDMSNVTLSRDLHAMAEMMAENYHN
SEQ ID NO: 61	EIYRWPIKESLKTMLAWGWRITEREGDSMALYNRRRISQ-----TSQVS-----VDAAHGYSRAIDMSNVTLSRDLHAMAEMMAENYHN
SEQ ID NO: 62	EIYRWPIKESLKTMLARTMRTERTREGDSMALYNRRRISQ-----TSQVS-----VDAAHGYSRAIDMSNVTLSRDLHAMAEMMAENYHN

FIGURE 1S

SEQ ID NO: 2	IWAKKKBELVTNGGGIHPQLVPYDILLTDKEKKKDRERSQEFLLKYLOQYQYKHLRPSKAPQ-SDTEQT-TTGVAIELRFAYSLLLEKLIQY
SEQ ID NO: 128	IWAKKKBELVTNGGGIHPQLVPYDILLTDKEKKKDRERSQEFLLKYLOQYQYKHLRPSKAPQ-SDTEQT-TTGVAIELRFAYSLLLEKLIQY
SEQ ID NO: 130	IWAKKKBELVTNGGGIHPQLVPYDILLTDKEKKKDRERSQEFLLKYLOQYQYKHLRPSKAPQ-SDTEQT-TTGVAIELRFAYSLLLEKLIQY
SEQ ID NO: 144	IWAKKKBELVTNGGGIHPQLVPYDILLTDKEKKKDRERSQEFLLKYLOQYQYKHLRPSKAPQ-SDTEQT-TTGVAIELRFAYSLLLEKLIQY
SEQ ID NO: 146	IWAKKKBELVTNGGGIHPQLVPYDILLTDKEKKKDRERSQEFLLKYLOQYQYKHLRPSKAPQ-SDTEQT-TTGVAIELRFAYSLLLEKLIQY
SEQ ID NO: 4	IWAKKKBEVMLCGGGIHNQVLPYDILLTDKEKKKDRERSQEFLLKYLOQYQYKHLRPNRNGGPSEAEQL-AAASTGELRFSYSLLEKLIHY
SEQ ID NO: 6	IWAKKKBEVMLCGGGIHNQVLPYDILLTDKEKKKDRERSQEFLLKYLOQYQYKHLRPNRNGGPSEAEQL-AAASTGELRFSYSLLEKLIHY
SEQ ID NO: 8	IWAKKKBELITCGGGIHPQLVPYDILLTDKEKKKDRERSQEFLLKYLOQYQYKHLRPSKAPQ-SDTEQT-TTGVAIELRFAYSLLLEKLIQY
SEQ ID NO: 10	IWAKKNEELNGCGVIHPQLVPYDILLTDKEKKKDRERSQEFLLKYMQYQYKHLKPSKGG--AVEEGG-ATQAAVELRFSYSLLEKLIQY
SEQ ID NO: 56	IWAKKNEELNGCGVIHPQLVPYDILLTDKEKKKDRERSQEFLLKYMQYQYKHLKPSKGG--AVEEGG-ATQAAVELRFSYSLLEKLIQY
SEQ ID NO: 57	IWAKKNEELDQCGGAIHAQLVPYDILLTDKEKKKDRERSQEFLLKYLOQYQYKHLKPSKGG--QTEEPG-MSTAAIELRFAYSLLLEKLIQY
SEQ ID NO: 58	IWAKKVMNDLNTKGGFMPILVPYDILLTDKEKKKDRERSQEFLLKYLOQYQYKHLRPNRNGGPSEAEQL-AAASTGELRFSYSLLEKLIHY
SEQ ID NO: 59	VWAKTKLEMLRGSGCHAQLVPYDILLTDSEKKKDRMAQALLKFLQVNGYRLQRHSLS--MDADGIIRGHSTIEKRFAFNLLDKLLHY
SEQ ID NO: 60	IWAKKKLELESKGGNHPLLPYDILLTDKEKKKDRERSQEFLLKYLOQYQYKHLKPSKGG--QTEEPG-MSTAAIELRFAYSLLLEKLIQY
SEQ ID NO: 61	IWAKKKLELESKGGNHPLLPYDILLTDKEKKKDRERSQEFLLKYLOQYQYKHLKPSKGG--QTEEPG-MSTAAIELRFAYSLLLEKLIQY
SEQ ID NO: 62	IWAKKKMELESKGGNHPLLPYDILLTDKEKKKDRERSQEFLLKYLOQYQYKHLKPSKGG--QTEEPG-MSTAAIELRFAYSLLLEKLIQY
SEQ ID NO: 2	IDRATINMKLLKPST-TFSRRSSFKTSTRDIKFFSKVVLPLMEKYFSTHRNYFIAVATATNSVG--AASLKEKEMVAALFCKLASLLRSR
SEQ ID NO: 128	IDRATINMKLLKPST-TFSRRSSFKTSTRDIKFFSKVVLPLMEKYFSTHRNYFIAVATATNSVG--AASLKEKEMVAALFCKLASLLRSR
SEQ ID NO: 130	IDRATINMKLLKPST-TFSRRSSFKTSTRDIKFFSKVVLPLMEKYFSTHRNYFIAVATATNSVG--AASLKEKEMVAALFCKLASLLRSR
SEQ ID NO: 144	IDRATINMKLLKPST-TFSRRSSFKTSTRDIKFFSKVVLPLMEKYFSTHRNYFIAVATATNSVG--AASLKEKEMVAALFCKLASLLRSR
SEQ ID NO: 146	IDRATINMKLLKPST-TFSRRSSFKTSTRDIKFFSKVVLPLMEKYFSTHRNYFIAVATATNSVG--AASLKEKEMVAALFCKLASLLRSR
SEQ ID NO: 4	IDRASINMKLLKPSG-TFSRRSSFKICTRDIKFFSKVVLPLVEKYFSTHRNYFITVATASSVLG--AASLKEKEMVASLFCCKLANLLRSK
SEQ ID NO: 6	IDRASINMKLLKPSG-TFSRRSSFKICTRDIKFFSKVVLPLVEKYFSTHRNYFITVATASSVLG--AASLKEKEMVASLFCCKLANLLRSK
SEQ ID NO: 8	IDRASINMKLLKPST-TFSRRSSFKTCTRDIKFFSKVVLPLVEKYFSTHRNYFIAVATANNIG--AASLKEKEMVASLFCCKLANLLRSR
SEQ ID NO: 10	LDRATINMKLLKPST-TFSRRSSFKTATRDIKFFSKVVLPLMEKYFSTHRNYFIAVATANNIG--AASLKEKEMVASIFCKLAALLRNR
SEQ ID NO: 56	LDRATINMKLLKPST-TFSRRSSFKTATRDIKFFSKVVLPLMEKYFSTHRNYFIAVATANNIG--AASLKEKEMVASIFCKLAALLRNR
SEQ ID NO: 57	SDRATINMKLLKPS--TFSRRSSFKTCTRDIKFFSKVVLPLMEKYFSSNRNYFIAVATANNIG--AASLKEKEMVAGLFCCKLASLLRHR
SEQ ID NO: 58	LEQASLKMSVKPSQ-ELTRRNSFKKEGQVFFKVVPLPMHAYFNAHKNYFLEGSSIVQGT--ASNKEKEMVANLFCRLAALLRIK
SEQ ID NO: 59	VDKSQANLKPQRQDSFRSSKESGDRGYKFFAKVVLPLIEKYPQAHSSYFVADPNAPQNGRSGGASTREKELVSSLFCCKLAQLIRQK
SEQ ID NO: 60	VDEAHQYILEFDGGS--RSKGEHFFPYEQEIKFFAKVVLPLIDQYFKNHRLYFLSAASRPLCTG-GHASNKEKEMVTSLFCCKLGVLRHR
SEQ ID NO: 61	VDEAHQYILEFDGGS--RSKGEHFFPYEQEIKFFAKVVLPLIDQYFKNHRLYFLSAASRPLCTG-GHASNKEKEMVTSLFCCKLGVLRHR
SEQ ID NO: 62	VDEAHQYILEFDGGS--RGKGEHFFPYEQEIKFFAKVVLPLIDQYFKNHRLYFLSAASRPLCTG-GHASNKEKEMVTSLFCCKLGVLRHR

FIGURE 1T

SEQ ID NO: 2	LAAFGPDVRIITVRCLQVLVRGIDAKSLVKNCPDEFIRTSMLTFFNNVADDVGHITMNLQDG-KYAHLR-GTHLKTSTSLGYIHGVLLPILT
SEQ ID NO: 128	LAAFGPDVRIITVRCLQVLVRGIDAKSLVKNCPDEFIRTSMLTFFNNVADDVGHITMNLQDG-KYAHLR-GTHLKTSTSLGYINGVLLPILT
SEQ ID NO: 130	LAAFGPDVRIITVRCLQVLVRGIDAKSLVKNCPDEFIRTSMLTFFNNVADDVGHITMNLQDG-KYAHLR-GTHLKTSTSLGYINGVLLPILT
SEQ ID NO: 144	LAAFGPDVRIITVRCLQVLVRGIDAKSLVKNCPDEFIRTSMLTFFNNVADDVGHITMNLQDG-KYAHLR-GTHLKTSTSLGYINGVLLPILT
SEQ ID NO: 146	LAAFGPDVRIITVRCLQVLVRGIDAKSLVKNCPDEFIRTSMLTFFNNVADDVGHITMNLQDG-KYAHLR-GTHLKTSTSLGYINGVLLPILT
SEQ ID NO: 4	LMAFGADVRIITVRCLQVLVKADAKSLVKNCPDEFIRTSMLTFFHNIADDLEHTIQNLHDS-RYCYLR-GTHLKTSTSLFYVNDVILPVLS
SEQ ID NO: 6	LMAFGADVRIITVRCLQVLVKADAKSLVKNCPDEFIRTSMLTFFHNIADDLEHTIQNLHDS-RYCYLR-GTHLKTSTSLFYVNDVILPVLS
SEQ ID NO: 8	LMAFGADVRIITVRCLQVLVKADAKSLVKNCPDEFIRTSMLTFFHNIADDLEHTIQNLHDS-RYCYLR-GTHLKTSTSLFYVNDVILPVLT
SEQ ID NO: 10	LSAFGPDVRIITVRCLQVLVKADAKSLVKNCPDEFIRTSMLTFFHNIADDLEHTIQNLHDS-RYCYLR-GTHLKTSTSLFYVNDVILPVLT
SEQ ID NO: 56	LSAFGPDVRIITVRCLQVLVKADAKSLVKNCPDEFIRTSMLTFFHNIADDLEHTIQNLHDS-RYCYLR-GTHLKTSTSLFYVNDVILPVLT
SEQ ID NO: 57	LAAFGADVRIITVRCLQVLVKADAKSLVKNCPDEFIRTSMLTFFHNIADDLEHTIQNLHDS-RYCYLR-GTHLKTSTSLFYVNDVILPVLT
SEQ ID NO: 58	NRAFGVAKITVRCLQVLVKADAKSLVKNCPDEFIRTSMLTFFHNIADDLEHTIQNLHDS-RYCYLR-GTHLKTSTSLFYVNDVILPVLT
SEQ ID NO: 59	INLFGDLVPFIRIRVVAQSIDASSVVKHSADAIKNGLLVFFRHSDDLVAIVDSVTSGGRFTHIKSNQVHKHSLAVNYVPGVLVPLI
SEQ ID NO: 60	ISLFGNDATSIIVNCHILGQTLDAITVMKTGLDSVKSALRAFLDNAEEDLEKTMENLKQG-QFTHTR-SQPKGVTOIINYTTVALLPMLS
SEQ ID NO: 61	ISLFGNDATSIIVNCHILGQTLDAITVMKTGLDSVKSALRAFLDNAEEDLEKTMENLKQG-QFTHTR-SQPKGVTOIINYTTVALLPMLS
SEQ ID NO: 62	ISLFGNDATSIIVNCHILGQTLDAITVMKTGLDSVKSALRAFLDNAEEDLEKTMENLKQG-QFTHTR-SQPKGVTOIINYTTVALLPMLS
SEQ ID NO: 2	AKFDHLANCEYGADLLLDLDEIQVASYKMLGSLYALGTDASLTHDRKYLKTEIERHKPALGSCGLGAFSSSTFPVAFQEPHLNKHNFSLNRI
SEQ ID NO: 128	AKFDHLANCEYGADLLLDLDEIQVASYKMLGSLYALGTDASLTHDRKYLKTEIERHKPALGSCGLGAFSSSTFPVAFQEPHLNKHNFSLNRI
SEQ ID NO: 130	AKFDHLANCEYGADLLLDLDEIQVASYKMLGSLYALGTDASLTHDRKYLKTEIERHKPALGSCGLGAFSSSTFPVAFQEPHLNKHNFSLNRI
SEQ ID NO: 144	AKFDHLANCEYGADLLLDLDEIQVASYKMLGSLYALGTDASLTHDRKYLKTEIERHKPALGSCGLGAFSSSTFPVAFQEPHLNKHNFSLNRI
SEQ ID NO: 146	AKFDHLANCEYGADLLLDLDEIQVASYKMLGSLYALGTDASLTHDRKYLKTEIERHKPALGSCGLGAFSSSTFPVAFQEPHLNKHNFSLNRI
SEQ ID NO: 4	SLFDHLAAEYEGNELLNDEIQVAAAYKMLSSLYTLGTDTSLTHDRKYLKVQLEHRHPAFGSCGLGAFSSSTFPVAFQEPHLNKHNFSLNRI
SEQ ID NO: 6	SLFDHLAAEYEGNELLNDEIQVAAAYKMLSSLYTLGTDTSLTHDRKYLKVQLEHRHPAFGSCGLGAFSSSTFPVAFQEPHLNKHNFSLNRI
SEQ ID NO: 8	AMFDHLAACEYGSDDLVLDEIQVASYKMLGSLYALGTDVTLTHDRKYLKTEIDRHRPQGLRCLGAYASTFPVAFQEPHLNKHNFSLNRI
SEQ ID NO: 10	AMFDHLAACEYGSDDLVLDEIQVASYKMLGSLYALGTDVTLTHDRKYLKTEIDRHRPQGLRCLGAYASTFPVAFQEPHLNKHNFSLNRI
SEQ ID NO: 56	AMFDHLAACEYGSDDLVLDEIQVASYKMLGSLYALGTDVTLTHDRKYLKTEIDRHRPQGLRCLGAYASTFPVAFQEPHLNKHNFSLNRI
SEQ ID NO: 57	SLFDHLAACEYGSDDLVLDEIQVASYKMLGSLYALGTDVTLTHDRKYLKTEIDRHRPQGLRCLGAYASTFPVAFQEPHLNKHNFSLNRI
SEQ ID NO: 58	TMFAHLARNHFGTDLLDDIQAACVYKILDSLYMVTGLSSSIHRKSIISGESEKHPGLGQCLAAAFASCFPVAFLEPEFNKSNKFSVLAKS
SEQ ID NO: 59	SLFQHLARNHFGTDLLDDIQAACVYKILDSLYMVTGLSSSIHRKSIISGESEKHPGLGQCLAAAFASCFPVAFLEPEFNKSNKFSVLAKS
SEQ ID NO: 60	SLFEHIGHQHGFEDLILEDVQVSCVIRILTSYALGTSKSI-----Y--VKKLRPAVGEHLLAAFGAFPVAFLEPHLNKNNPNSLLGQI
SEQ ID NO: 61	SLFEHIGHQHGFEDLILEDVQVSCVIRILTSYALGTSKSI-----Y--VERQRSALGECCLAAAFAGAFPIAFLETHLDKHNVIYINTR
SEQ ID NO: 62	SLFEHIGHQHGFEDLILEDVQVSCVIRILTSYALGTSKSI-----Y--VERQRSALGECCLAAAFAGAFPPVAFLETHLDKHNVIYINTR

FIGURE 1U

SEQ ID NO: 2	ADHS---LEAQDIMQKMEQCMTLETILGEVDQFVESDKTYNEAPHIIDVLPLLCSYLPFWWAQGPNDVPTTGGN-----HVTMVTAEH
SEQ ID NO: 128	ADHS---LEAQDIMQKMEQCMTLETILGEVDQFVESDKTYNEAPHIIDVLPLLCSYLPFWWAQGPNDVPTTGGN-----HVTMVTAEH
SEQ ID NO: 130	ADHS---LEAQDIMQKMEQCMTLEAILGEVDQFVESDKTYNEAPHIIDVLPLLCSYLPFWWAQGPNDVPTTGGN-----HVTMVTAEH
SEQ ID NO: 144	ADHS---LEAQDIMQKMEQCMTLETILGEVDQFVESDKTYNEAPHIIDVLPLLCSYLPFWWAQGPNDVPTTGGN-----HVTMVTAEH
SEQ ID NO: 146	ADHS---LEAQDIMQKMEQCMTLETILGEVDQFVESDKTYNEAPHIIDVLPLLCSYLPFWWAQGPNDVPTTGGN-----HVTMVTAEH
SEQ ID NO: 4	ADSS---LEAQDIMSRTGEMTLETILVNEVDQFIESEKTYTDAPHIIDVLPLLCSYLPFWWAQGPNDVPTTGGN-----HVTMVTSEH
SEQ ID NO: 6	ADSS---LEAQDIMSRTGEMTLETILVNEVDQFIESEKTYTDAPHIIDVLPLLCSYLPFWWAQGPNDVPTTGGN-----HVTMVTSEH
SEQ ID NO: 8	ADHS---LEAQDILSRMESTMPTLDNILEVDQFVESDKTHNDAPHIIDVIMPMILCSYLPVWNQGPNDVPTTGGN-----YVTTVTSEH
SEQ ID NO: 10	ADHS---LEAQDIMVKMESCMPNLETILAEDVDQFVESDKTYNDAPHIIDVLPILLCAYLPFWWSQGPNDVPTTGGN-----HVTMVTADH
SEQ ID NO: 56	ADHS---LEAQDIMVKMESCMPNLETILAEDVDQFVESDKTYNDAPHIIDVLPILLCAYLPFWWSQGPNDVPTTGGN-----HVTMVTADH
SEQ ID NO: 57	ADTS---LEAQDIMSKMESCMPNLETILSEVDQFVESEKTYQEAQHIIDVLPILLCAYLPFWWNQGPNDVPTTGGN-----HVTMVTADH
SEQ ID NO: 58	QDQS---VQVQEMLQNLSTHIPLEKLLTDLETANNNTMYSDVPNVYDVLPLMCSYMAHWFVSGPDGKRDKEQDQASVVQTTVSQCDH
SEQ ID NO: 59	ELRG-ATVEGKEELIKLAAGIPTLPVAVTEIDKAMSGAKYDQAPHIEIVLPMLCSYLYNWQQGPDNICTRRQGN-----YWTMVNSGN
SEQ ID NO: 60	SSRRTALSLPANVEDVCPNIPSLKLMTEIIELAESGIRYTMYPYMEVLPMLCSYMSRWHEGHPENHPERAEM-----CCTALNSEH
SEQ ID NO: 61	SSRRAALSIPANVEDVCPNIPSLKLMTEIIELAESGIRYTMYPYMEVLPMLCSYMSRWHEGHPENHPERAEM-----CCTALNSEH
SEQ ID NO: 62	SSRRAALSIPANVEDVCPNIPSLKLMTEIIELAESGIRYTMYPYMEVLPMLCSYMSRWHEGHPENHPERAEM-----CCTALNSEH

SEQ ID NO: 2	MNQLLKNVLKLIKKNIGNENAPWMTRITATYTTQIIINSSEELLRDSFLPLAERVKRKTDNMFMHKEESLRGFIKSSDDTSQVESQIQEDW
SEQ ID NO: 128	MNQLLKNVLKLIKKNIGNENAPWMTRITATYTTQIIINSSEELLRDSFLPLAERVKRKTDNMFMHKEESLRGFIKSSDDTSQVESQIQEDW
SEQ ID NO: 130	MNQLLKNVLKLIKKNIGNENAPWMTRITATYTTQIIINSSEELLRDSFLPLAERVKRKTDNMFMHKEESLRGFIKSSDDTSQVESQIQEDW
SEQ ID NO: 144	MNQLLKNVLKLIKKNIGNENAPWMTRITATYTTQIIINSSEELLRDSFLPLAERVKRKTDNMFMHKEESLRGFIKSSDDTSQVESQIQEDW
SEQ ID NO: 146	MNQLLKNVLKLIKKNIGNENAPWMTRITATYTTQIIINSSEELLRDSFLPLAERVKRKTDNMFMHKEESLRGFIKSSDDTSQVESQIQEDW
SEQ ID NO: 4	MNCLLKNVLKLIKKNIGNDNAPWMTQIAAYTTQIIINSSEELLKDPFLPLAERVKKRTETLYHKEESLRGFIKSSDDTSQIEAQIQEDW
SEQ ID NO: 6	MNCLLKNVLKLIKKNIGNDNAPWMTQIAAYTTQIIINSSEELLKDPFLPLAERVKKRTETLYHKEESLRGFIKSSDDTSQIEAQIQEDW
SEQ ID NO: 8	MNQLLKNVLKMIKNIGNESAPWMTRITATYTTQIIINSSEELLKDPFLPLAERVKKRTETLYHKEESLRGFIKSSDDTSQIEAQIQEDW
SEQ ID NO: 10	MNPLLRNVLMKIKKNIGNDNAPWMTQIAAYTTQIIINTSEELLKDPFLPLAERVKKRTETLYHKEESLRGFIKSSDDTSQIEAQIQEDW
SEQ ID NO: 56	MNPLLRNVLMKIKKNIGNDNAPWMTQIAAYTTQIIINTSEELLKDPFLPLAERVKKRTETLYHKEESLRGFIKSSDDTSQIEAQIQEDW
SEQ ID NO: 57	MNHLKKNVLKMIKKNIGNENAPWMTRITATYTTQIIINSSEELLKDVFLPLAERVKKRCDMSFMHKEESLRGFIKSSDDTSQIEAQIQEDW
SEQ ID NO: 58	INRIFNALLKMIRNVHGIENAPWLCRVNFFAVQIIQNVTSDPVREFFVLPVIAERLRMSEKAYKEEHRMTHPD---D--ADEGTVAEEN
SEQ ID NO: 59	LNNTLGNVLTLVKNLGNSENAPWMSRIAATAKAPILNDAQPELLKTHFVPIEKLEERTSKVFKAEEDLKKEYPMGQGEETEFAILEDY
SEQ ID NO: 60	MNTLLGNILKIIYNNLGNIDEGAWMKRLAVFSQPIINKVKPQLLKTHFLPLMEKLLKKAAMVSVSEEDHLKAEARG---DMSEAEILLDEF
SEQ ID NO: 61	MNTLLGNILKIIYNNLGNIDEGAWMKRLAVFSQPIINKVKPQLLKTHFLPLMEKLLKKAAMVSVSEEDHLKAEARG---DMSEAEILLDEF
SEQ ID NO: 62	MNTLLGNILKIIYNNLGNIDEGAWMKRLAVFSQPIINKVKPQLLKTHFLPLMEKLLKKAATVSVSEEDHLKAEARG---DMSEAEILLDEF

FIGURE 1V

SEQ ID NO: 2	QLLVVDIYSFYPLLIKYVDLQRNHWLRNNVPEAEELYNHVHVAEIFNWSKSYFLKEEQNFISANEIDNMVLIMPTATRRV---TAVTDGT
SEQ ID NO: 128	QLLVVDIYSFYPLLIKYVDLQRNHWLRNNVPEAEELYNHVHVAEIFNWSKSYFLKEEQNFISANEIDNMVLIMPTATRRV---TAVTDGT
SEQ ID NO: 130	QLLVVDIYSFYPLLIKYVDLQRNHWLRNNVPEAEELYNHVHVAEIFNWSKSYFLKEEQNFISANEIDNMVLIMPTATRRV---TAVTDGT
SEQ ID NO: 144	QLLVVDIYSFYPLLIKYVDLQRNHWLRNNVPEAEELYNHVHVAEIFNWSKSYFLKEEQNFISANEIDNMVLIMPTATRRV---TAVTDGT
SEQ ID NO: 146	QLLVVDIYSFYPLLIKYVDLQRNHWLRNNVPEAEELYNHVHVAEIFNWSKSYFLKEEQNFISANEIDNMVLIMPTATRRV---TAVTDGT
SEQ ID NO: 4	QLVVDIYAFYPLLIKYVDLQRNHWLRNNSISNAEDLYNHVSEIFNWSKSYFLKEEQNFISANEIDNMILIMPTATRRS---AVISETS
SEQ ID NO: 6	QLVVDIYAFYPLLIKYVDLQRNHWLRNNSISNAEDLYNHVSEIFNWSKSYFLKEEQNFISANEIDNMILIMPTATRRS---AVISETS
SEQ ID NO: 8	QLLVVDIYSFYPLLIKYVDLQRNHWLRNNSISNAEDLYNHVSEIFNWSKSYFLKEEQNFISANEIDNMILIMPTATRRS---AVISETS
SEQ ID NO: 10	QLLVVDIYSFYPLLIKYVDLQRNHWLRNNSISNAEDLYNHVSEIFNWSKSYFLKEEQNFISANEIDNMILIMPTATRRS---AVISETS
SEQ ID NO: 56	QLLVVDIYSFYPLLIKYVDLQRNHWLRNNSISNAEDLYNHVSEIFNWSKSYFLKEEQNFISANEIDNMILIMPTATRRS---AVISETS
SEQ ID NO: 57	QLLVVDIYSFYPLLIKYVDLQRNHWLRNNSISNAEDLYNHVSEIFNWSKSYFLKEEQNFISANEIDNMILIMPTATRRS---AVISETS
SEQ ID NO: 58	QLLVVDIYSFYPLLIKYVDLQRNHWLRNNSISNAEDLYNHVSEIFNWSKSYFLKEEQNFISANEIDNMILIMPTATRRS---AVISETS
SEQ ID NO: 59	QLLVVDIYSFYPLLIKYVDLQRNHWLRNNSISNAEDLYNHVSEIFNWSKSYFLKEEQNFISANEIDNMILIMPTATRRS---AVISETS
SEQ ID NO: 60	QLLVVDIYSFYPLLIKYVDLQRNHWLRNNSISNAEDLYNHVSEIFNWSKSYFLKEEQNFISANEIDNMILIMPTATRRS---AVISETS
SEQ ID NO: 61	QLLVVDIYSFYPLLIKYVDLQRNHWLRNNSISNAEDLYNHVSEIFNWSKSYFLKEEQNFISANEIDNMILIMPTATRRS---AVISETS
SEQ ID NO: 62	QLLVVDIYSFYPLLIKYVDLQRNHWLRNNSISNAEDLYNHVSEIFNWSKSYFLKEEQNFISANEIDNMILIMPTATRRS---AVISETS
SEQ ID NO: 2	PQGGG---KKKKKXHRDKKRDKDKEVQASLMVACLKRLLPVGLNLFAGREQELVQHCKDRFLKVGTLKMSQEQDVAEFAKTQTLTLPDKIDPA
SEQ ID NO: 128	PQGGG---KKKKKXHRDKKRDKDKEVQASLMVACLKRLLPVGLNLFAGREQELVQHCKDRFLKVGTLKMSQEQDVAEFAKTQTLTLPDKIDPA
SEQ ID NO: 130	PQGGG---KKKKKXHRDKKRDKDKEVQASLMVACLKRLLPVGLNLFAGREQELVQHCKDRFLKVGTLKMSQEQDVAEFAKTQTLTLPDKIDPA
SEQ ID NO: 144	PQGGG---KKKKKXHRDKKRDKDKEVQASLMVACLKRLLPVGLNLFAGREQELVQHCKDRFLKVGTLKMSQEQDVAEFAKTQTLTLPDKIDPA
SEQ ID NO: 146	PQGGG---KKKKKXHRDKKRDKDKEVQASLMVACLKRLLPVGLNLFAGREQELVQHCKDRFLKVGTLKMSQEQDVAEFAKTQTLTLPDKIDPA
SEQ ID NO: 4	LG-GSTGKKKKKXHRDKKRDKEKEIQASLMVACLKRLLPVGLNLFAGREQELVQHCKDRFLKVGTLKMSQEQDVAEFAKTQTLTLPDKIDPA
SEQ ID NO: 6	LG-GSSGKKKKKXHRDKKRDKEKEIQASLMVACLKRLLPVGLNLFAGREQELVQHCKDRFLKVGTLKMSQEQDVAEFAKTQTLTLPDKIDPA
SEQ ID NO: 8	APPGSGKKKKKXHRDKKRDKEKEIQASLMVACLKRLLPVGLNLFAGREQELVQHCKDRFLKVGTLKMSQEQDVAEFAKTQTLTLPDKIDPA
SEQ ID NO: 10	PAVGKVKKKKKXHRDKKRDKEKEIQASLMVACLKRLLPVGLNLFAGREQELVQHCKDRFLKVGTLKMSQEQDVAEFAKTQTLTLPDKIDPA
SEQ ID NO: 56	PAVGKVKKKKKXHRDKKRDKEKEIQASLMVACLKRLLPVGLNLFAGREQELVQHCKDRFLKVGTLKMSQEQDVAEFAKTQTLTLPDKIDPA
SEQ ID NO: 57	PASGGKVKKKKKXHRDKKRDKEKEIQASLMVACLKRLLPVGLNLFAGREQELVQHCKDRFLKVGTLKMSQEQDVAEFAKTQTLTLPDKIDPA
SEQ ID NO: 58	IAERK---KKRR---E-GQIKKDKHAASIVACLKRLLPVGLNLFAGREQELVQHCKDRFLKVGTLKMSQEQDVAEFAKTQTLTLPDKIDPA
SEQ ID NO: 59	SLPGEK---PKLQSTAPKRPDQHGSPSLIACLKRLLPVGLNLFAGREQELVQHCKDRFLKVGTLKMSQEQDVAEFAKTQTLTLPDKIDPA
SEQ ID NO: 60	ISDQER---KKMK-----RKGDYSMTQSLTSLIACLKRLLPVGLNLFAGREQELVQHCKDRFLKVGTLKMSQEQDVAEFAKTQTLTLPDKIDPA
SEQ ID NO: 61	VSDQER---KKMK-----RKGDYSMTQSLTSLIACLKRLLPVGLNLFAGREQELVQHCKDRFLKVGTLKMSQEQDVAEFAKTQTLTLPDKIDPA
SEQ ID NO: 62	VSDQER---KKMK-----RKGDYSMTQSLTSLIACLKRLLPVGLNLFAGREQELVQHCKDRFLKVGTLKMSQEQDVAEFAKTQTLTLPDKIDPA

SEQ	ID NO: 2	DEMSWQHLYSLGSKSK--	--SNITVETA-	ENKAKIIIDTTVERIV
SEQ	ID NO: 128	DEMSWQHLYSLGSKSK-	--SNITVETA-	ENKAKIIIDTTVERIV
SEQ	ID NO: 130	DEMSWQHLYSLGSKSK-	--SNITVETA-	ENKAKIIIDTTVERIV
SEQ	ID NO: 144	DEMSWQHLYSLGSKSK-	--SNITVETA-	ENKAKIIIDTTVERIV
SEQ	ID NO: 146	DEMSWQHLYSLGSKSK-	--SNITVETA-	ENKAKIIIDTTVERIV
SEQ	ID NO: 4	DEMSWQHLYSLGSKKG--	--TPEIK-	-PQQVDEVADRIV
SEQ	ID NO: 6	DEMSWQHLYSLGSKKG--	--NTEIK-	-PQQVDEVADRIV
SEQ	ID NO: 8	DEMSWQHLYSLTGSKKE--	--ITEGGK-	-PEQIDAVVDRIV
SEQ	ID NO: 10	DEMSWQHLYSLGKTKEEP--	--VDEQALEKANVNS-	NEKGDKTKQTETVDRIV
SEQ	ID NO: 56	DEMSWQHLYSLGKTKEEP--	--VDEQALEKANVNS-	NEKGDKTKQTETVDRIV
SEQ	ID NO: 57	DEMSWQHLYSLGKKKEQ--	--IVQDTLEKS-	DKKPENKIEDTVERIV
SEQ	ID NO: 58	DKNAWQLUSLYRKIGKSQMR		GKDMSQDAVIEKIF
SEQ	ID NO: 59	EETARLTALGHAQSSISPKPSVSFSSPPSSSPSSSSSSSSSTTSSTSSSSSSSSSSSSSSPPSSSDVPDQDSTKPISRIRTRRQ		EDPSDPERTTVERVL
SEQ	ID NO: 60	PAIRWQWALYKDFPNRT--	--EETS	SDPEKTVERVL
SEQ	ID NO: 61	PAIRWQWALYKDLPNRT--	--EETS	SDPEKTVERVL
SEQ	ID NO: 62	PAIRWQWALYKDLPNRT--	--DDTS	DPDPEKTVERVL

SEQ	ID	NO: 2	AMSK-----VLFGLHMI-----DHPQMSKNVYRSVVSIOQRKRAVI
SEQ	ID	NO: 128	AMSK-----VLFGLHMI-----DHPQMSKNVYRSVVSIOQRKRAVI
SEQ	ID	NO: 130	AMSK-----VLFGLHMI-----DHPQMSKNVYRSVVSIOQRKRAVI
SEQ	ID	NO: 144	AMSK-----VLFGLHMI-----DHPQMSKNVYRSVVSIOQRKRAVI
SEQ	ID	NO: 146	AMSK-----VLFGLHMI-----DHPQMSKNVYRSVVSIOQRKRAVI
SEQ	ID	NO: 4	AMAK-----VLYGLHMI-----DHPLOSKAIYRSVSVSTQKRRAVI
SEQ	ID	NO: 6	AMAK-----VLYGLHMI-----DHPLOSKATYRSVSVSTQKRRAVI
SEQ	ID	NO: 8	AMAK-----VLFGLHMI-----DHPLOSKASYRSVSVSTQKRRAVI
SEQ	ID	NO: 10	AMAK-----VLFGLHMI-----DHPQQQSKNVYRSVVSIOQRKRAVI
SEQ	ID	NO: 56	AMAK-----VLFGLHMI-----DHPQQQSKNVYRSVVSIOQRKRAVI
SEQ	ID	NO: 57	AMAK-----VLYGLHM-----
SEQ	ID	NO: 58	NMGQ-----VSAILHT-----MTRSMKEKEDIWKVLTLOQRKRAI
SEQ	ID	NO: 59	SIAAWQTAASRVTGAHITQSDSGWQRHLYNNMAASKLVQVVELTKDKVIERIMNMAQVLNRLHQMEHPMSKKNAWRRRLMSAQKRRAIM
SEQ	ID	NO: 60	GIAN-----VLFHLEQK-SKYTGRGYFS-----LVEHPQRSKKA VWHKLLSKQKRRAV
SEQ	ID	NO: 61	DIAN-----VLFHLEQK-SKFI GRRYIN-----LVEHPQRSKKA VWHKLLSKQKRRAV
SEQ	ID	NO: 62	DIAN-----VLFHLEQK-SKRVGRRHYC-----LVEHPQRSKKA VWHKLLSKQKRRAV

[illegible]

FIGURE 1Y

SEQ ID NO: 2	ASKGLPSEVMVMKTLQLGISILRGNNIDIQMGLNHLKDKDVGFFTSIAGLMNSCSVLDLAFERNTKAEGLVGLEGAA-----GEKD
SEQ ID NO: 128	ASKGLPSEVMVMKTLQLGISILRGNNIDIQMGLNHLKDKDVGFFTSIAGLMNSCSVLDLAFERNTKAEGLVGLEGAA-----GEKD
SEQ ID NO: 130	ASKGLPSEVMVMKTLQLGISILRGNNIDIQMGLNHLKDKDVGFFTSIAGLMNSCSVLDLAFERNTKAEGLVGLEGAA-----GEKD
SEQ ID NO: 144	ASKGLPSEVMVMKTLQLGISILRGNNIDIQMGLNHLKDKDVGFFTSIAGLMNSCSVLDLAFERNTKAEGLVGLEGAA-----GEKD
SEQ ID NO: 146	ASKGLPSEVMVMKTLQLGISILRGNNIDIQMGLNHLKDKDVGFFTSIAGLMNSCSVLDLAFERNTKAEGLVGLEGAA-----GEKD
SEQ ID NO: 4	ACKGIPSEVMVMKTLQLGIAVLRGNNLEIQMGLNHLKDKDVGFFTSVAGLMNSCSVLDLAFERNTKAEGLVGSEGA-----GEKD
SEQ ID NO: 6	ACKGIPSEVMVMKTLQLGIAVLRGNNLEIQMGLNHLKDKDVGFFTSVAGLMNSCSVLDLAFERNTKAEGLVGSEGA-----GEKD
SEQ ID NO: 8	ACNGVPSEVMVMKTLQLGISILRGNNIDIQMGLNHLKDKDVGFFTSIAGLMNSCSVLDLAFERNTKAEGLVGSDGAA-----GEKD
SEQ ID NO: 10	ASKGIPSEVMVMKTLQLGIAVLRGNNLEIQMGLNHLKDKDVGFFTSIAGLMNSCSVLDLAFERNTKAEGLVGSEGA-----GEKD
SEQ ID NO: 56	ASKGIPSEVMVMKTLQLGIAVLRGNNLEIQMGLNHLKDKDVGFFTSIAGLMNSCSVLDLAFERNTKAEGLVGSEGA-----GEKD
SEQ ID NO: 57	ASKGVPSEVMVMKTLQLGIAVLRGNNLEIQMGLNHLKDKDVGFFTSIAGLMNSCSVLDLAFERNTKAEGLVGSDGAA-----GEKD
SEQ ID NO: 58	ASGGEPSEVMVMKTLQLGIAVLRGNNLEIQMGLNHLKDKDVGFFTSIAGLMNSCSVLDLAFERNTKAEGLVGSEGA-----GEKD
SEQ ID NO: 59	ASKGEPSEVMVMKTLQLGIAVLRGNNLEIQMGLNHLKDKDVGFFTSIAGLMNSCSVLDLAFERNTKAEGLVGSEGA-----GEKD
SEQ ID NO: 60	ASKGETGPMVAATLKLGLAIIILNGNSTVQQKMLDYLKDKDVGFFTSIAGLMNSCSVLDLAFERNTKAEGLVGSEGA-----GEKD
SEQ ID NO: 61	ASKGETGPMVAATLKLGLAIIILNGNSTVQQKMLDYLKDKDVGFFTSIAGLMNSCSVLDLAFERNTKAEGLVGSEGA-----GEKD
SEQ ID NO: 62	ASKGETGPMVAATLKLGLAIIILNGNSTVQQKMLDYLKDKDVGFFTSIAGLMNSCSVLDLAFERNTKAEGLVGSEGA-----GEKD
SEQ ID NO: 2	NMHDAEFTCALFRFIQLTCEGHNLDWQNYLRTQAGNTTTNNVVICTVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 128	NMHDAEFTCALFRFIQLTCEGHNLDWQNYLRTQAGNTTTNNVVICTVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 130	NMHDAEFTCALFRFIQLTCEGHNLDWQNYLRTQAGNTTTNNVVICTVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 144	NMHDAEFTCALFRFIQLTCEGHNLDWQNYLRTQAGNTTTNNVVICTVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 146	NMHDAEFTCALFRFIQLTCEGHNLDWQNYLRTQAGNTTTNNVVICTVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 4	NMHDAEFTCTLFRFIQLTCEGHNLDWQNYLRTQAGNTTTNNVICTVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 6	NMHDAEFTCTLFRFIQLTCEGHNLDWQNYLRTQAGNTTTNNVICTVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 8	NMHDAEFTCTLFRFIQLTCEGHNLDWQNYLRTQAGNTTTNNVICTVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 10	NMHDAEFTCALFRFIQLTCEGHNLDWQNYLRTQAGNTTTNNVICTVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 56	NMHDAEFTCALFRFIQLTCEGHNLDWQNYLRTQAGNTTTNNVICTVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 57	NMHDAEFTCALFRFIQLTCEGHNLDWQNYLRTQAGNTTTNNVICTVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 58	NLNDADFTCSLFRFLQLTCEGHNLDWQNYLRTQAGNTTTNNVICTVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 59	AMHDAEFTCALFRFLQLTCEGHNLDWQNYLRTQAGNTTTNNVICTVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 60	VLQDDEFTCDLFRFLQLTCEGHNLDWQNYLRTQAGNTTTNNVICTVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 61	VLQDDEFTCDLFRFLQLTCEGHNLDWQNYLRTQAGNTTTNNVICTVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 62	VLQDDEFTCDLFRFLQLTCEGHNLDWQNYLRTQAGNTTTNNVICTVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN

FIGURE 1Z

SEQ ID NO: 2	TLTEVIQGPCTQNQQALAHSLRLWDVAVGGFLFLFSHMQDKLSKHSSQVDLLKELLNPQKDMITMMLSMLEGNVNGTIVKQMVDTLVGSAS
SEQ ID NO: 128	TLTEVIQGPCTQNQQALAHSLRLWDVAVGGFLFLFSHMQDKLSKHSSQVDLLKELLNLQKDMIPMMLSMLEGNVNGTIGKQMVDTLVESAS
SEQ ID NO: 130	TLTEVIQGPCTQNQQALAHSLRLWDVAVGGFLFLFSHMQDKLSKHSSQVDLLKELLNLQKDMITMMLSMLEGNVNGTIGKQMVDTLVESAS
SEQ ID NO: 144	TLTEVIQGPCTQNQQALAHSLRLWDVAVGGFLFLFSHMQDKLSKHSSQVDLLKELLNLQKDMITMMLSMLEGNVNGTIGKQMVDTLVESAS
SEQ ID NO: 146	TLTEVIQGPCTQNQQALAHSLRLWDVAVGGFLFLFSHMQDKLSKHSSQVDLLKELLNLQKDMITMMLSMLEGNVNGTIGKQMVDTLVESAS
SEQ ID NO: 4	TLSEVIQGPCTQNQQALAHSLRLWDVAVGGFLFLFSHMQDKLSKHSSQVDLLKELLNLQKDMITMMLSMLEGNVNGTIGKQMVDTLVESAS
SEQ ID NO: 6	TLSEVIQGPCTQNQQALAHSLRLWDVAVGGFLFLFSHMQDKLSKHSSQVDLLKELLNLQKDMITMMLSMLEGNVNGTIGKQMVDTLVESAS
SEQ ID NO: 8	TLSEVIQGPCTQNQQALAHSLRLWDVAVGGFLFLFSHMQDKLSKHSSQVDLLKELLNLQKDMITMMLSMLEGNVNGTIGKQMVDTLVESAS
SEQ ID NO: 10	TLTEVIQGPCTLNQQALAHSLRLWDVAVGGFLFLFSHMQDKLSKHSSQVDLLKELLNLQKDMITMMLSMLEGNVNGTIGKQMVDTLVESAS
SEQ ID NO: 56	TLTEVIQGPCTLNQQALAHSLRLWDVAVGGFLFLFSHMQDKLSKHSSQVDLLKELLNLQKDMITMMLSMLEGNVNGTIGKQMVDTLVESAS
SEQ ID NO: 57	TLTEVIQGPCTQNQQALAHSLRLWDVAVGGFLFLFSHMQDKLSKHSSQVDLLKELLNLQKDMITMMLSMLEGNVNGTIGKQMVDTLVESAS
SEQ ID NO: 58	TLTESIQGPCVGNQMTLANSRLWDVAVGGFLFLFSHMQDKLSKHSSQVDLLKELLNLQKDMITMMLSMLEGNVNGTIGKQMVDTLVESAS
SEQ ID NO: 59	SLTEYIQGPCSGNQLAHSLRLWDVAVGGFLFLFSHMQDKLSKHSSQVDLLKELLNLQKDMITMMLSMLEGNVNGTIGKQMVDTLVESAS
SEQ ID NO: 60	TLTEYIQGPCTGNQQSLAHSLRLWDVAVGGFLFLFSHMQDKLSKHSSQVDLLKELLNLQKDMITMMLSMLEGNVNGTIGKQMVDTLVESAS
SEQ ID NO: 61	TLTEYIQGPCTGNQQSLAHSLRLWDVAVGGFLFLFSHMQDKLSKHSSQVDLLKELLNLQKDMITMMLSMLEGNVNGTIGKQMVDTLVESAS
SEQ ID NO: 62	TLTEYIQGPCTGNQQSLAHSLRLWDVAVGGFLFLFSHMQDKLSKHSSQVDLLKELLNLQKDMITMMLSMLEGNVNGTIGKQMVDTLVESAS

SEQ ID NO: 2	NVELILKYFDMFLKLKDLTSSASFQEI DANNDGWVLPKDFEKEMEQKSYTPTEEIEFLACCE TNHDGKLDYIGFCDRFHEPAKEIGFNL
SEQ ID NO: 128	NVELILKYFDMFLKLKDLTSSASFQEI DANNDGWVLPKDFEKEMEQKSYTPTEEIEFLACCE TNHDGKLDYIGFCDRFHEPAKEIGFNL
SEQ ID NO: 130	NVELILKYFDMFLKLKDLTSSASFQEI DANNDGWVLPKDFEKEMEQKSYTPTEEIEFLACCE TNHDGKLDYIGFCDRFHEPAKEIGFNL
SEQ ID NO: 144	NVELILKYFDMFLKLKDLTSSASFQEI DANNDGWVLPKDFEKEMEQKSYTPTEEIEFLACCE TNHDGKLDYIGFCDRFHEPAKEIGFNL
SEQ ID NO: 146	NVELILKYFDMFLKLKDLTSSASFQEI DANNDGWVLPKDFEKEMEQKSYTPTEEIEFLACCE TNHDGKLDYIGFCDRFHEPAKEIGFNL
SEQ ID NO: 4	NVELILKYFDMFLKLKDLTSSASFQEI DANNDGWVLPKDFEKEMEQKSYTPTEEIEFLACCE TNHDGKLDYIGFCDRFHEPAKEIGFNL
SEQ ID NO: 6	NVELILKYFDMFLKLKDLTSSASFQEI DANNDGWVLPKDFEKEMEQKSYTPTEEIEFLACCE TNHDGKLDYIGFCDRFHEPAKEIGFNL
SEQ ID NO: 8	NVELILKYFDMFLKLKDLTSSASFQEI DANNDGWVLPKDFEKEMEQKSYTPTEEIEFLACCE TNHDGKLDYIGFCDRFHEPAKEIGFNL
SEQ ID NO: 10	NVELILKYFDMFLKLADLIESPSFHEVDMKNEGWVTPKDFREKMEQSKNYTPEEMDFLLACCERNHEGKIDYAFRAVEHFHEPSKEIGFNL
SEQ ID NO: 56	NVELILKYFDMFLKLADLIESPSFHEVDMKNEGWVTPKDFREKMEQSKNYTPEEMDFLLACCERNHEGKIDYAFRAVEHFHEPSKEIGFNL
SEQ ID NO: 57	NVELILKYFDMFLKLADLIESPSFHEVDMKNEGWVTPKDFREKMEQSKNYTPEEMDFLLACCERNHEGKIDYAFRAVEHFHEPSKEIGFNL
SEQ ID NO: 58	SVEKILKFSDFMFLKLADLIESPSFHEVDMKNEGWVTPKDFREKMEQSKNYTPEEMDFLLACCERNHEGKIDYAFRAVEHFHEPSKEIGFNL
SEQ ID NO: 59	NLEMILKFFDFMFLKLADLIESPSFHEVDMKNEGWVTPKDFREKMEQSKNYTPEEMDFLLACCERNHEGKIDYAFRAVEHFHEPSKEIGFNL
SEQ ID NO: 60	NVEMILKFFDFMFLKLADLIESPSFHEVDMKNEGWVTPKDFREKMEQSKNYTPEEMDFLLACCERNHEGKIDYAFRAVEHFHEPSKEIGFNL
SEQ ID NO: 61	NVEMILKFFDFMFLKLADLIESPSFHEVDMKNEGWVTPKDFREKMEQSKNYTPEEMDFLLACCERNHEGKIDYAFRAVEHFHEPSKEIGFNL
SEQ ID NO: 62	NVEMILKFFDFMFLKLADLIESPSFHEVDMKNEGWVTPKDFREKMEQSKNYTPEEMDFLLACCERNHEGKIDYAFRAVEHFHEPSKEIGFNL

FIGURE 1AA

SEQ ID NO:2 AVLLTNLSEHMPNEPRLARFLETAGSVLDYFEPFLGRIEIMGSKRIERVYFEIKESNIEQWEKPOIKESKRAFFYSIVTE-GGDREKLE
SEQ ID NO:128 AVLLTNLSEHMPNEPRLARFLETAGSVLNYFEPFLGRIEIMGSKRIERVYFEIKESNIEQWEKPOIKESKRAFFYSIVTE-GGDKEKLE
SEQ ID NO:130 AVLLTNLSEHMPNEPRLARFLETAGSVLNYFEPFLGRIEIMGSKRIERVYFEIKESNIEQWEKPOIKESKRAFFYSIVTE-GGDKEKLE
SEQ ID NO:144 AVLLTNLSEHMPNEPRLARFLETAGSVLNYFEPFLGRIEIMGSKRIERVYFEIKESNIEQWEKPOIKESKRAFFYSIVTE-GGDKEKLE
SEQ ID NO:146 AVLLTNLSEHMPNEPRLARFLETAGSVLNYFEPFLGRIEIMGSKRIERVYFEIKESNIEQWEKPOIKESKRAFFYSIVTE-GGDKEKLE
SEQ ID NO:4 AVLLTNLSEHMPNEPRLTRFLETASSVLNYFQPFLLGRIEILGSKRIERVYFEIKESNIEQWLKPQIRESKRAFFYSIVTE-GGDKEKLE
SEQ ID NO:6 AVLLTNLSEHMPNEPRLTRFLETASSVLNYFQPFLLGRIEILGSKRIERVYFEIKESNIEQWEKPOIKESKRAFFYSIVTE-GGDKEKLE
SEQ ID NO:8 AVLLTNLSEHMPNEPRLARFLETAGSVLNYFEPFLGRIEILGSKRIERVYFEIKESNIEQWEKPOIKESKRAFFYSIVTE-GGDKEKLE
SEQ ID NO:10 AVLLTNLSEHMPNEPRLARFLETAGSVLNYFEPFLGRIEILGSKRIERVYFEIKESNIEQWEKPOIKESKRAFFYSIVTE-GGDKEKLE
SEQ ID NO:56 AVLLTNLSEHMPNEPRLARFLETAGSVLNYFEPFLGRIEILGSKRIERVYFEIKESNIEQWEKPOIKESKRAFFYSIVTE-GGDKEKLE
SEQ ID NO:57 AVLLTNLSEHMPNEPRLARFLETAGSVLNYFEPFLGRIEILGSKRIERVYFEIKESNIEQWEKPOIKESKRAFFYSIVTE-GGDKEKLE
SEQ ID NO:58 AVLLVNLKEHITNDPRLEKIIIEKAQTLLEYFDPFLGRIEIMGSSKRVEKIYFEIQESWLEQWGKQIQIRDSKNSFLFNVLQDDGGDQKLE
SEQ ID NO:59 AVLLTNLNDHMPGERRLERFLQLAESLLTYFEPYLGRIEIMGSSRGRIERVYFEIKESNIEQWEKPOIKESKRAFFYSIVTE-GGEKEKLE
SEQ ID NO:60 AVLLTNLSEHMPNDTRLQTFLEAESVLNYFQPFLLGRIEIMGSAKRIERVYFEISESRTQWEKPOIKESKRAFFYSIVTE-GGEKEKLE
SEQ ID NO:61 AVLLTNLSEHMPNETRLQTFLEAESVLNYFQPFLLGRIEIMGSAKRIERVYFEISESRTQWEKPOIKESKRAFFYSIVTE-GGEKEKLE
SEQ ID NO:62 AVLLTNLSEHMPNDTRLQTFLEAESVLNYFQPFLLGRIEIMGSAKRIERVYFEISESRTQWEKPOIKESKRAFFYSIVTE-GGEKEKLE

SEQ ID NO:2 AFVNFCEDAIFEMTHASGLMAASEES-VGGTKNREASYM-YMGDDGDERAGKDPFRRGLQSVKDG VATAFSSLSPSNIKAKIADMQQMPP
SEQ ID NO:128 AFVNFCEDAIFEMTHASGLMAASEES-VGGTKNREASYM-YMGDDDDDERAGKDPFRRGLQSVKDG VATAFSSLSPSNIKAKIADMQQMPP
SEQ ID NO:130 AFVNFCEDAIFEMTHASGLMAASEES-VGGTKNREASYM-YMGDDDDDERAGKDPFRRGLQSVKDG VATAFSSLSPSNIKAKIADMQQMPP
SEQ ID NO:144 AFVNFCEDAIFEMTHASGLMAASEES-VGGTKNREASYM-YMGDDDDDERAGKDPFRRGLQSVKDG VATAFSSLSPSNIKAKIADMQQMPP
SEQ ID NO:146 AFVNFCEDAIFEMTHASGLMAASEES-VGGTKNREASYM-YMGDDDDDERAGKDPFRRGLQSVKDG VATAFSSLSPSNIKAKIADMQQMPP
SEQ ID NO:4 AFVNFCEDAIFEMQHASGLMAVDGSGIGGGKSRKTSYT-YLADDEENKTAKDPIRRGIQAIKYGFHLLFFVLSPNTIKNKINEIQOMSV
SEQ ID NO:6 AFVNFCEDAIFEMQHASGLMAVDGSGIGGGKSRKTAYI-YLADDEENKTAKDPIRRGIQAIKYGFHLLFFVLSPNTIKNKINEIQOMSF
SEQ ID NO:8 AFVNFCEDAIFEMTHASGLMSVDDSGGGGGK---AAYT-YTSEDEEKNKADPIRRITQAFKDAIYFILTMLSPNTIKNKINEMQQMSV
SEQ ID NO:10 AFVNFCEDAIFEMTHASGLMATDDG---CGNVKRD TAYSSYMESEEEERAAADPIRRITITAVKEGLKFGVHMLSPANIKHQIGVMQTKSI
SEQ ID NO:56 AFVNFCEDAIFEMTHASGLMATDDG---CGNVKRD TAYSSYMESEEEERAAADPIRRITITAVKEGLKFGVHMLSPANIKHQIGVMQTKSI
SEQ ID NO:57 AFVNFCEDAIFEMTHASGLMASDDD---GGTVRRDQFT-YTSEEEERAAADPIKRTTQAVKDGSLSYMYMISPNIKHQITVLQSKSF
SEQ ID NO:58 AFINFCEDTIFEMQHAAAISSGDS-----TKMERAIKQDYFLQOTSADHISETFSGYNYGISAASALSPQNIQTNRNVSSSVRQMSW
SEQ ID NO:59 DFVNFCEDTIFEMQHATSISDTGESL-PEVFMSSLTTFGASRDNNWLVLVGRMRPSPNCRMLMGDDFFSSSQYNIQIRSLSLFRLFFGVI
SEQ ID NO:60 LFVNFCEDTIFEMQLAAQISESDLINE-PLANKEESEKERPEEQAPRMGFFSLLTIQSALFALRYNVLTLVRMLSLKSLKKQMKMKMTV
SEQ ID NO:61 LFVNFCEDTIFEMQLAAQISESDLINE-PSANKEESEKERPEEQPKMGFFSVLTVRSALFALRYNLTLMRMLSLKSLKKQMKMKMTV
SEQ ID NO:62 LFVNFCEDTIFEMQLAAQISESDLINE-RSANKEESEKERPEEQPRMAFFSILTVRSALFALRYNLTLMRMLSLKSLKKQMKMKVKKMTV

FIGURE 1BB

SEQ ID NO: 2	AELAVGFFKMFYFYLYLGVGLVVVRYIFGVLGLMRGPQTDEPPPEETEEKIG-----QLRHRLLATQSSR-----HLPALPPA
SEQ ID NO: 128	AELAVGFFKMFYFYLYLGVGLVVVRYIFGVLGLMRGPQTDEPPPEETEEKIG-----QLRHRLLATQSSR-----HLPALPPA
SEQ ID NO: 130	AELAVGFFKMFYFYLYLGVGLVVVRYIFGVLGLMRGPQTDEPPPEETEEKIG-----QLRHRLLATQSSR-----HLPALPPA
SEQ ID NO: 144	AELAVGFFKMFYFYLYLGVGLVVVRYIFGVLGLMRGPQTDEPPPEETEEKIG-----QLRHRLLATQSSR-----HLPALPPA
SEQ ID NO: 146	AELAVGFFKMFYFYLYLGVGLVVVRYIFGVLGLMRGPQTDEPPPEETEEKIG-----QLRHRLLATQSSR-----HLPALPPA
SEQ ID NO: 4	IELITSPFKLWFYLYFYTGYSGVVLRYSIRILMQLSGTQSEETTVEVEEK-----SGSFR-----MLPALPSS
SEQ ID NO: 6	VELITSPFKLWFYLYFYTGYSGVVLRYSIRILMQLSGTQSEETTVEVEEK-----AGSFR-----MLPALPSS
SEQ ID NO: 8	PELVVGFKKIFFYMFYYSVSVVLRVYFGRILMTLMRGPTQTEEPVAEVKKEDEI-----MGPIR-----ALPPPPPD
SEQ ID NO: 10	PELIVGFFKIIIFYFYTGVAHFVVRVYIFGILLNLMRGPAEQ-----EPEPVVEET-----FGR-----ALPPLSLE
SEQ ID NO: 56	PELIVGFFKIIIFYFYTGVAHFVVRVYIFGILLNLMRGPAEQ-----EPEPVVEET-----FGR-----ALPPLSLE
SEQ ID NO: 57	PELIVGFFKIIIFYFYTGVAHFVVRVYIFGILLNLMRGPAEQ-----EPEPVVEET-----FGR-----ALPPLSLE
SEQ ID NO: 58	TQLLVAVILFIRAGLAIGWAGYLLMTIFRFGYFLTTSSEEAARQEKAQMN-----N-----EHPSFN-----PPIIQE
SEQ ID NO: 59	KLIFLGVFKLFKFAFVIVGKLIG--LLVGTRILEDAREITGSIKHSLVHVRVARQT-----SSIIINVPGYMPSARRNTSFWQYLTQYFT
SEQ ID NO: 60	KOMVLAFSSYSVFWTLHFVASVCRGFFRIVSLLGSLVEGAKKIKVAELLANMPDPTQDEVRGDEEGGERK--PLESALPSEDLT
SEQ ID NO: 61	KOMVTAFSSYSIFMTLLHFVASVFRGFFRIVCSLLGSLVEGAKKIKVAELLANMPDPTQDEVRGDEEGGERK--PMETTLPSEDLT
SEQ ID NO: 62	KDMVTAFSSYSIFMTLLHFVASVFRGFFRIICSLLLGSLVEGAKKIKVAELLANMPDPTQDEVRGDEEGGERK--PLEAALPSEDLT
SEQ ID NO: 2	DDTGQMVSFAFGLDITKEDNGQ-----IQVKPHESPSTSTPSSGGE-AEVSPPDESADHTEE-----QRPPSLIDLGLGGEQAKK
SEQ ID NO: 128	DDTGQMVSFAFGLDITKEDNGQ-----IQVKPHESPSTSTPSSGGE-AEVSPPDESADHTEE-----QRPPSLIDLGLGGEQAKK
SEQ ID NO: 130	DDTGQMVSFAFGLDITKEDNGQ-----IQVKPHESPSTSTPSSGGE-AEVSPPDESADHTEE-----QRPPSLIDLGLGGEQAKK
SEQ ID NO: 144	DDTGQMVSFAFGLDITKEDNGQ-----IQVKPHESPSTSTPSSGGE-AEVSPPDESADHTEE-----QRPPSLIDLGLGGEQAKK
SEQ ID NO: 146	DDTGQMVSFAFGLDITKEDNGQ-----IQVKPHESPSTSTPSSGGE-AEVSPPDESADHTEE-----QRPPSLIDLGLGGEQAKK
SEQ ID NO: 4	GIDETPSTLTDSSNMKNKSGSL-----DSKHLKSTTGD--DKOETSAENHEKEDGVDG-----SELQASFVDLLLVGESARK
SEQ ID NO: 6	GVDEPPSTLIDSSNMKNKSGAP-----DSKHVKSTTVGD--DKOETSTENHEKEDGVKSE-----DNSELQASFVDLLLVGESARK
SEQ ID NO: 8	NKEASSSSAKDDSGQAKPADG-----GATLALTASGE--EHKEGGATEGAEDGAKPEG--AETTEGTTMTLADLLGLGEAARK
SEQ ID NO: 10	EPGP--TVQAFGLDINKEENG--YKVVVHESPAN--SSMEEGGESPEDGAAAAGELVEGEHPHQGPISIVDGLLGEAAKK
SEQ ID NO: 56	EPGP--TVQAFGLDINKEENG--YKVVVHESPAN--SSMEEGGESPEDGAAAAGELVEGEHPHQGPISIVDGLLGEAAKK
SEQ ID NO: 57	EPGP--TVQAFGLDISKEENGQ-----YRMAPHESPALSPSSSIETGESPEDGAAELTG--EGVPPGEQMTLVDLLGLGEAAKR
SEQ ID NO: 58	FHSHVGVTAFAFGVMNADHLN-----VNSLPDFVPPERPETPETVILEEKKPLN-----QETSPTSPT
SEQ ID NO: 59	NVNSMDTVSAFGLDIFLKGKGGGGGAGTDQYKLRMRKRRLPTSSSFDDEEMSDNMNPTHTPSEASD--SSFDSGAMAKNDFSMMPD
SEQ ID NO: 60	DLKELTEESDLSDFGLDLKREGG-----QYKLIPHNPAGLSDLMTNPNVPVPEVQKFOEQAKKEE-----KEEKEETKSEPEKAE
SEQ ID NO: 61	DLKELTEESDLSDFGLDLKREGG-----QYKLIPHNPAGLSDLMTNPNVPVPEVQKFOEQAKKEE-----KEEKEETKSEPEKAE
SEQ ID NO: 62	DLKELTEESDLSDFGLDLKREGG-----QYKLIPHNPAGLSDLMTNPNVPVPEVQKFOEQAKKEE-----KEEKEETKSEPEKAE

FIGURE 1CC

SEQ ID NO:2	QAQERMEAAQAQAAMSAIEAESKKAQVG-PAPSALSQVDLSQYTRRAVSFLARFYNLKYVALVLAFCINFLVLLFYKVSSTLDGEGGE--
SEQ ID NO:128	QAQERMEAAQAQAAMSAIEAESKKAQVG-PAPSALSQVDLSQYTRRAVSFLARFYNLKYVALVLAFCINFLVLLFYKVSSTLDGEGGE--
SEQ ID NO:130	QAQERMEAAQAQAAMSAIEAESKKAQVG-PAPSALSQVDLSQYTRRAVSFLARFYNLKYVALVLAFCINFLVLLFYKVSSTLDGEGGE--
SEQ ID NO:144	QAQERMEAAQAQAAMSAIEAESKKAQVG-PAPSALSQVDLSQYTRRVVSFLARFYNLKYVALVLAFCINFLVLLFYKVSSTLDGEGGE--
SEQ ID NO:146	QAQERMEAAQAQAAMSAIEAESKKAQVG-PAPSALSQVDLSQYTRRAVSFLARFYNLKYVALVLAFCINFLVLLFYKVSSTLDGEGGE--
SEQ ID NO:4	DSIAGPEVLAQQQAVMAAVEAEIKQNSV-ENPSAFSTIDINAYTHRALSFARFYNLKYVALVLAFCINFLVLLFYKVTTLADLSDDG
SEQ ID NO:6	DSIAGPEVLAQQQAVMAAVEAEIKQNSV-ENPSAFSTIDINAYTHRALSFARFYNLKYVALVLAFCINFLVLLFYKVTTLADLSDDG
SEQ ID NO:8	EAVARAEVAAEQQAAMAAVEAEAEKHEVVS-E-PSAFSQIDFNRYTHRAVSFLARFYNLKYVALVLAFCINFLVLLFYKVTTSFTEEADS--
SEQ ID NO:10	AAQERQEAQAQAAMASIEAEAKKSSAPQETPAVHQIDFSQYTHRAVSFLARFYNLKYVALVLAFCINFLVLLFYKVTTSFTEEADS--
SEQ ID NO:56	AAQERQEAQAQAAMASIEAEAKKSSAPQETPAVHQIDFSQYTHRAVSFLARFYNLKYVALVLAFCINFLVLLFYKVTTSFTEEADS--
SEQ ID NO:57	AAQERTEAQAQAATLASIEAESKKASTETKEPAAVHQIDFSQYTHRAVSFLARFYNLKYVALVLAFCINFLVLLFYKVTTLGDEDEDGEG
SEQ ID NO:58	SPASKAPSIYESIGAPQMVLQSEADFQOQYEPKIAESNSTKSRGSIINMLARNFYNIKYVALVLAFCINFLVLLFYKVTTLGDEDEDGEG
SEQ ID NO:59	MSAGRRDSTVFP-SLFLATEMPSTQVKEEEEEPEVPEPQMNVRVKQTVSVLSFARFYNLKYVALVLAFCINFLVLLFYKVSYLTAELEE--
SEQ ID NO:60	GEDGEKEEKAKDEKSKQLRQLHTRHYCEPEVPEPESAFWKKIYQQKLLNYFARNFYNNRMLALFVAFAINFILLFYKVS--TSSVVE--
SEQ ID NO:61	GEDGEKEEKVKEDKGKQLRQLHTRHYCEPEVPEPESAFWKKIYQQKLLNYFARNFYNNRMLALFVAFAINFILLFYKVS--TSSVVE--
SEQ ID NO:62	GEDGEKEEKAKEDKGKQLRQLHTRHYCEPEVPEPESAFWKKIYQQKLLNYFARNFYNNRMLALFVAFAINFILLFYKVS--TSSVVE--
SEQ ID NO:2	-----GSLGDIAGGGSGGAGS-----GSGDGSGETGE--DDDALEVVHIDEDFFMEHVIKMAAVLHSTIVSLAILIGYYHLKV
SEQ ID NO:128	-----GSLGDIAGGGSGGAGS-----GSGDGSGESGE--DDDALEVVHIDEDFFMEHVIKMAAVLHSTIVSLAILIGYYHLKV
SEQ ID NO:130	-----GSLGDIAGGGSGGAGS-----GSGDGSGESGE--DDDALEVVHIDEDFFMEHVIKMAAVLHSTIVSLAILIGYYHLKV
SEQ ID NO:144	-----GSLGDIAGGGSGGAGS-----GSGDGSGESGE--DDDALEVVHIDEDFFMEHVIKMAAVLHSTIVSLAILIGYYHLKV
SEQ ID NO:146	-----GSLGDIAGGGSGGAGS-----GSGDGSGESGE--DDDALEVVHIDEDFFMEHVIKMAAVLHSTIVSLAILIGYYHLKV
SEQ ID NO:4	-----DVKEFALGSAGISNDDID-----DSNSTEMAD--DDGALELVHVNEDFFYMAHVMLAALLHSLASLAMLIAYYHLKV
SEQ ID NO:6	-----DSKDFALGSAGISNDDID-----DSNSTEAD--DDGALELVHVNEDFFYMAHVMLAALLHSLASLAMLIAYYHLKV
SEQ ID NO:8	SGELGGGLAEDLLELGGSGGEGGGLSG-CISGESGEDSGE--EEDPIELVHVNEDFFYMAHVMLAALLHSLASLAMLIAYYHLKV
SEQ ID NO:10	-----SAAEELILSGPGGGADITGSGFGGSGDGGSGDGE-MEDEIPELVHVNEDFFMEHVLRIACHLHSLVSLAMLIAYYHLKV
SEQ ID NO:56	-----SAAEELILSGSGGGADITGSGFGGSGDGGSGDGE-MEDEIPELVHVNEDFFMEHVLRIACHLHSLVSLAMLIAYYHLKV
SEQ ID NO:57	-----GSGESLMGLSGSLGILETCSGG-GEKVGSGDGEDEEDPPEKVVHDEDEFFMEHVLRIACHLHSLVSLAMLIAYYHLKV
SEQ ID NO:58	-----I SHAENAEAAASEG-----DDEDALESIFITGMQFPYVEYEITGMMLAQILYWSVLHSLSTFALLVSFYQLKI
SEQ ID NO:59	-----VDPYHPVEILENATSPNG-----ADMAGDEDR--VDDQIEQILINQQFMVLPVQLVLSILHSLVSLAMLIAYYCALKV
SEQ ID NO:60	-----GKELPTRSSDTAKVTNS-----LDSSPHR-----IAVHYVLEESSGYMEPTLRILAILHTIISFFCIIGYYCLKV
SEQ ID NO:61	-----GKELPSRSTSENAKVTTS-----LDSSSHR-----IAVHYVLEESSGYMEPTLRILAILHTIISFFCIIGYYCLKV
SEQ ID NO:62	-----GKELPTRSSSENAKVTS-----LDSSSHR-----IAVHYVLEESSGYMEPTLRILAILHTIISFFCIIGYYCLKV

FIGURE 1DD

SEQ ID NO: 2	PLAIFKREKEIARKLEFDGLYIAEQPED-----DDLKSHWDKLVISAKSPVPVNYWDKFVKKKVRKAKYSETYDFDSDISNMLGMEKTSFSAQ
SEQ ID NO: 128	PLAIFKREKEIARKLEFDGLYIAEQPED-----DDLKSHWDKLVISAKSPVPVNYWDKFVKKKVRKAKYSETYDFDSDISNMLGMEKTSFSAQ
SEQ ID NO: 130	PLAIFKREKEIARKLEFDGLYIAEQPED-----DDLKSHWDKLVISAKSPVPVNYWDKFVKKKVRKAKYSETYDFDSDISNMLGMEKTSFSAQ
SEQ ID NO: 144	PLAIFKREKEIARKLEFDGLYIAEQPED-----DDLKSHWDKLVISAKSPVPVNYWDKFVKKKVRKAKYSETYDFDSDISNMLGMEKTSFSAQ
SEQ ID NO: 146	PLAIFKREKEIARKLEFDGLYIAEQPED-----DDLKSHWDKLVISAKSPVPVNYWDKFVKKKVRKAKYSETYDFDSDISNMLGMEKTSFSAQ
SEQ ID NO: 4	PLAIFKREKEIARKLEFDGLYIAEQPED-----DDIKSHWDKLVISAKSPVPVNYWDKFAKKKVRQKQYSETYDFDSDISNMLGMEKTSFSTQ
SEQ ID NO: 6	PLAIFKREKEIARKLEFDGLYIAEQPED-----DDIKSHWDKLVISAKSPVPVNYWDKFAKKKVRQKQYSETYDFDSDISNMLGMEKTSFSTQ
SEQ ID NO: 8	PLAIFKREKEIARKLEFDGLYIAEQPED-----DDIKSHWDKLVISAKSPVPVNYWDKFAKKKVRQKQYSETYDFDSDISNMLGMEKTSFSSQ
SEQ ID NO: 10	PLAIFKREKEIARKLEFDGLYIAEQPED-----DDFKSHWDKLVISAKSPVPVNYWDKFVKKKVRQKQYSETYDFDSDISNMLGMEKSTFAAQ
SEQ ID NO: 56	PLAIFKREKEIARKLEFDGLYIAEQPED-----DDFKSHWDKLVISAKSPVPVNYWDKFVKKKVRQKQYSETYDFDSDISNMLGMEKSTFAAQ
SEQ ID NO: 57	PLAIFKREKEIARKLEFDGLYIAEQPED-----DDIKSHWDKLVISAKTPFPVNYWDKFVKKKVRQKQYSETYDFDSDISNMLGMEKTAFAAQ
SEQ ID NO: 58	PLITFKREKEIARKLMFDGCWITEEDSEELGIVDTFMWYLDRIIVVSAKSPFPMYWDKFVRRKTRSKFKDQVDEETLTSILGEEKMS--T
SEQ ID NO: 59	PLCLFKREKEIARKLEFDGWITEQPTR-----DDIKQWDSLAISTVSPVYWDKFVKKKVLKKYEDAVGEDKLCAMLGMEIGENPMA
SEQ ID NO: 60	PLVIFKREKEVARKLEFDGLYITEQPS-----DDIKQWDRLVINTQSPNNYWDKFVKKVMDKYGEFYGRDRISELLGMDKAALDFS
SEQ ID NO: 61	PLVIFKREKEVARKLEFDGLYITEQPS-----DDIKQWDRLVINTQSPNNYWDKFVKKVMDKYGEFYGRDRISELLGMDKAALDFS
SEQ ID NO: 62	PLVIFKREKEVARKLEFDGLYITEQPS-----DDIKQWDRLVINTQSPNNYWDKFVKKVMDKYGEFYGRDRISELLGMDKAALDFS

SEQ ID NO: 2	EEGSGK-----LIHYIINIDWRYQVWK-AGVTITDNSFLYSLWYFVSVMGNFNN-FFFAAHLLDVAVGFKTLRTLILQSVTHNGKQLV
SEQ ID NO: 128	EEGSGK-----LIHYIINIDWRYQVWK-AGVTITDNSFLYSLWYFVSVMGNFNN-FFFAAHLLDVAVGFKTLRTLILQSVTHNGKQLV
SEQ ID NO: 130	EEGSGK-----LIHYIINIDWRYQVWK-AGVTITDNSFLYSLWYFVSVMGNFNN-FFFAAHLLDVAVGFKTLRTLILQSVTHNGKQLV
SEQ ID NO: 144	EEGSGK-----LIHYIINIDWRYQVWK-AGVTITDNSFLYSLWYFVSVMGNFNN-FFFAAHLLDVAVGFKTLRTLILQSVTHNGKQLV
SEQ ID NO: 146	EEGSGK-----LIHYIINIDWRYQVWK-AGVTITDNSFLYSLWYFVSVMGNFNN-FFFAAHLLDVAVGFKTLRTLILQSVTHNGKQLV
SEQ ID NO: 4	ENEERTG-----LINFVINIDWRYQVWK-AGVTITDNAFLYSLWYFTFSLGNFNN-FFFAAHLLDVAVGFKTLRTLILQSVTHNGKQLV
SEQ ID NO: 6	ENEERTG-----LINFVINIDWRYQVWK-AGVTITDNAFLYSLWYFTFSLGNFNN-FFFAAHLLDVAVGFKTLRTLILQSVTHNGKQLV
SEQ ID NO: 8	ETEETG-----IINFILNIDWRYQVWK-AGVTITDNAFLYSLWYFISILGNFNN-FFFAAHLLDVAVGFKTLRTLILQSVTHNGKQLV
SEQ ID NO: 10	ESEETG-----IFKYIMNIDWRYQVWK-AGVFTDNAFLYSLWYFVSVMGNFNN-FFFAAHLLDVAVGFKTLRTLILQSVTHNGKQLV
SEQ ID NO: 56	ESEETG-----IFKYIMNIDWRYQVWK-AGVFTDNAFLYSLWYFVSVMGNFNN-FFFAAHLLDVAVGFKTLRTLILQSVTHNGKQLV
SEQ ID NO: 57	EANEGBG-----FFHFITNIDWRYQVWK-AGVTITDNSFLYSLWYFVSVMGNFNN-FFFAAHLLDVAVGFKTLRTLILQSVTHNGKQLV
SEQ ID NO: 58	DS-----S-YDVRYSCLWIGVILTNQOPLRVGYLLCSACGVLSFPFFYAFHLIDVLSFPMLKAILQSVTHNLQQLI
SEQ ID NO: 59	GNPTENP--NQGLFSSMLTSLDWKYHIWK-CGVIGTDSNLFYIAWYLLFSLGHINP-FFFAAHLLDIAMGFKTLRTLILQSVTHNGKQLV
SEQ ID NO: 60	DAREKKPKKDSSLSAVLNSIDVKYQMWK-LGVVFTDNSFLYIAWYMTMSVLGHYNN-FFFAAHLLDIAMGFKTLRTLILSSVTHNGKQLV
SEQ ID NO: 61	DAREKKPKKDSSLSAVLNSIDVKYQMWK-LGVVFTDNSFLYIAWYMTMSVLGHYNN-FFFAAHLLDIAMGFKTLRTLILSSVTHNGKQLV
SEQ ID NO: 62	DAREKKPKKDSSLSAVLNSIDVKYQMWK-LGVVFTDNSFLYIAWYMTMSVLGHYNN-FFFAAHLLDIAMGFKTLRTLILSSVTHNGKQLV

FIGURE 1EE

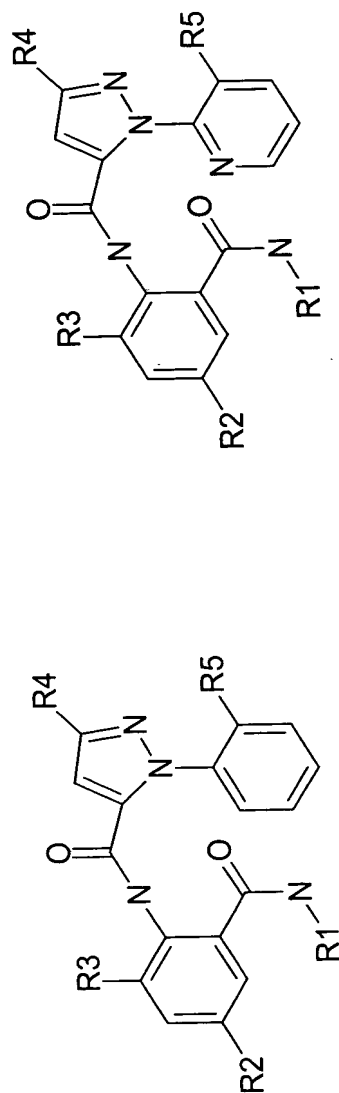
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SEQ ID NO: 128	LTVMLLTIIIVYITVIAFNFRKFYVQGED--DEVNRNCHDMLTCTFVNLYKGVRAAGGGIGDELEPPDGGDDSEVYRIIFDTSFFFFIIVI
SEQ ID NO: 130	LTVMLLTIIIVYITVIAFNFRKFYVQGED--DEVNRNCHDMLTCTFVNLYKGVRAAGGGIGDELEPPDGGDDSEVYRIIFDTSFFFFIIVI
SEQ ID NO: 144	LTVMLLTIIIVYITVIAFNFRKFYVQGED--DEVNRNCHDMLTCTFVNLYKGVRAAGGGIGDELEPPDGGDDSEVYRIIFDTSFFFFIIVI
SEQ ID NO: 146	LTVMLLTIIIVYITVIAFNFRKFYVQGED--DEVNRNCHDMLTCTFVNLYKGVRAAGGGIGDELEPPDGGDDSEVYRIIFDTSFFFFIIVI
SEQ ID NO: 4	LTVLLLTIIIVYITVIAFNFRKFYVQGED--DEVNKKCHDMLTCTFVPHLYKGVRAAGGGIGDEISPGDGGDYEVYRIIMFDITFFFFFVIII
SEQ ID NO: 6	LTVLLLTIIIVYITVIAFNFRKFYIRED--DEVNKKCHDMLTCTFVPHLYKGVRAAGGGIGDEISPGDGGDYEVYRIIMFDITFFFFFVIII
SEQ ID NO: 8	LTVMLLTIIIVYITVIAFNFRKFYVQGED--EEDVKKCHDMLTCTFVPHLYKGVRAAGGGIGDEIEPPDGGDYEVYRIIMFDITFFFFFVIVI
SEQ ID NO: 10	LTVMLLTIIIVYITVIAFNFRKFYIRED--EEDVKKCHDMLTCTFVPHLYKGVRAAGGGIGDEIEPPDGGDYEVYRIIMFDITFFFFFVIVI
SEQ ID NO: 56	LTVMLLTIIIVYITVIAFNFRKFYIRED--EEDVKKCHDMLTCTFVPHLYKGVRAAGGGIGDEIEPPDGGDYEVYRIIMFDITFFFFFVIVI
SEQ ID NO: 57	LTVMLLTIIIVYITVIAFNFRKFYVQGEDGEEGDRKCHDMLTCTFVPHLYKGVRAAGGGIGDEIEPPDGGDYEVYRIIMFDITFFFFFVIVI
SEQ ID NO: 58	LTVMLLTIIIVYITVIAFNFRKFYVQGEDGEEGDRKCHDMLTCTFVPHLYKGVRAAGGGIGDEIEPPDGGDYEVYRIIMFDITFFFFFVIVI
SEQ ID NO: 59	LTIMMTLVVYLYTVIAFNFRKFYVQGEIEGDRKCHDMLTCTFVPHLYKGVRAAGGGIGDEIEPPDGGDYEVYRIIMFDITFFFFFVIVI
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SEQ ID NO: 60	LTVMLLTIIIVYITVIAFNFRKFYVQGED--GDTMDKDDMLTCTFVPHLYKGVRAAGGGIGDEIEPPDGGDYEVYRIIMFDITFFFFFVIVI
SEQ ID NO: 61	LTVMLLTIIIVYITVIAFNFRKFYVQGED--GDTMDKDDMLTCTFVPHLYKGVRAAGGGIGDEIEPPDGGDYEVYRIIMFDITFFFFFVIVI
SEQ ID NO: 62	LTVMLLTIIIVYITVIAFNFRKFYVQGED--GDTMDKDDMLTCTFVPHLYKGVRAAGGGIGDEIEPPDGGDYEVYRIIMFDITFFFFFVIVI

SEQ ID NO: 2	LLAILQGLIIDAFAFGLRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTEYTGQETYVWNMYTQR
SEQ ID NO: 128	LLAILQGLIIDAFAFGLRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTEYTGQETYVWNMYTQR
SEQ ID NO: 130	LLAILQGLIIDAFAFGLRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTEYTGQETYVWNMYTQR
SEQ ID NO: 144	LLAILQGLIIDAFAFGLRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTEYTGQETYVWNMYTQR
SEQ ID NO: 146	LLAILQGLIIDAFAFGLRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTEYTGQETYVWNMYTQR
SEQ ID NO: 4	LLAILQGLIIDAFAFGLRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTEYTGQETYVWNMYTQR
SEQ ID NO: 6	LLAILQGLIIDAFAFGLRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTEYTGQETYVWNMYTQR
SEQ ID NO: 8	LLAILQGLIIDAFAFGLRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTEYTGQETYVWNMYTQR
SEQ ID NO: 10	LLAILQGLIIDAFAFGLRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTEYTGQETYVWNMYTQR
SEQ ID NO: 56	LLAILQGLIIDAFAFGLRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTEYTGQETYVWNMYTQR
SEQ ID NO: 57	LLAILQGLIIDAFAFGLRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTEYTGQETYVWNMYTQR
SEQ ID NO: 58	LLAIMQGLIIDAFAFGLRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTEYTGQETYVWNMYTQR
SEQ ID NO: 59	LLAIMQGLIIDAFAFGLRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTEYTGQETYVWNMYTQR
SEQ ID NO: 60	LLAIMQGLIIDAFAFGLRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTEYTGQETYVWNMYTQR
SEQ ID NO: 61	LLAIMQGLIIDAFAFGLRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTEYTGQETYVWNMYTQR
SEQ ID NO: 62	LLAIMQGLIIDAFAFGLRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTEYTGQETYVWNMYTQR

FIGURE 1FF

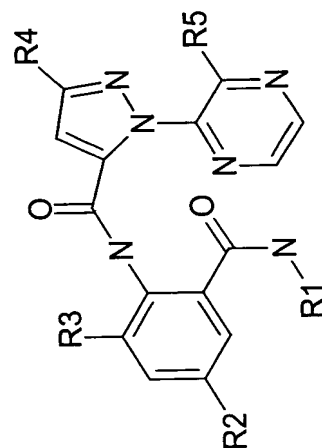
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SEQ ID NO:128	CWDFFPVGDGCFRKQYEDLMGE-----				
SEQ ID NO:130	CWDFFPVGDGCFRKQYEDLMGE-----				
SEQ ID NO:144	CWDFFPVGDGCFRKQYEDLMGE-----				
SEQ ID NO:146	CWDFFPVGDGCFRKQYEDLMGE-----				
SEQ ID NO:4	CWDFFPVGDGCFRKQYEEELGGGGV--				
SEQ ID NO:6	CWDFFPVGDGCFRKQYEEELGGGGV--				
SEQ ID NO:8	CWDFFPVGDGCFRKQYEDELGGGG--				
SEQ ID NO:10	SWDFFPVGDGCFRKQYEDELSGGGGG				
SEQ ID NO:56	SWDFFPVGDGCFRKQYEDELSGGGGG				
SEQ ID NO:57	CWDFFPVGDGCFRKQYEDELGGGGS--				
SEQ ID NO:58	DWDFFPVGEFVKQYEDQLLQS-----				
SEQ ID NO:59	CWDFFPVGDGCFRKQYDDEQA-----				
SEQ ID NO:60	CWEFFPAGDCFRKQYEDQLN-----				
SEQ ID NO:61	CWEFFPAGDCFRKQYEDQLN-----				
SEQ ID NO:62	CWEFFPAGDCFRKQYEDQLN-----				
SEQ ID NO:2	=	tobacco budworm	(5142 amino acids)		
SEQ ID NO:128	=	tobacco budworm HV7	(5128 amino acids)		
SEQ ID NO:130	=	tobacco budworm HV2	(5135 amino acids)		
SEQ ID NO:144	=	tobacco budworm HV3	(5142 amino acids)		
SEQ ID NO:146	=	tobacco budworm HV6	(5100 amino acids)		
SEQ ID NO:4	=	green peach aphid	(5101 amino acids)		
SEQ ID NO:6	=	cotton melon aphid	(5104 amino acids)		
SEQ ID NO:8	=	corn plant hopper	(5127 amino acids)		
SEQ ID NO:10	=	fruitfly (DuPont)	(5109 amino acids)		
SEQ ID NO:56	=	fruitfly gi17352471	(5113 amino acids)		
SEQ ID NO:57	=	mosquito gi21301556	(4868 amino acids)		
SEQ ID NO:58	=	nematode gi1871447	(5071 amino acids)		
SEQ ID NO:59	=	sea urchin gi18656155	(5317 amino acids)		
SEQ ID NO:60	=	mouse gi13569850	(4967 amino acids)		
SEQ ID NO:61	=	rabbit gi1245376	(4968 amino acids)		
SEQ ID NO:62	=	human gi4506757	(4967 amino acids)		

FIGURE 2



Group 1

Group 2



Group 3

Figure 3

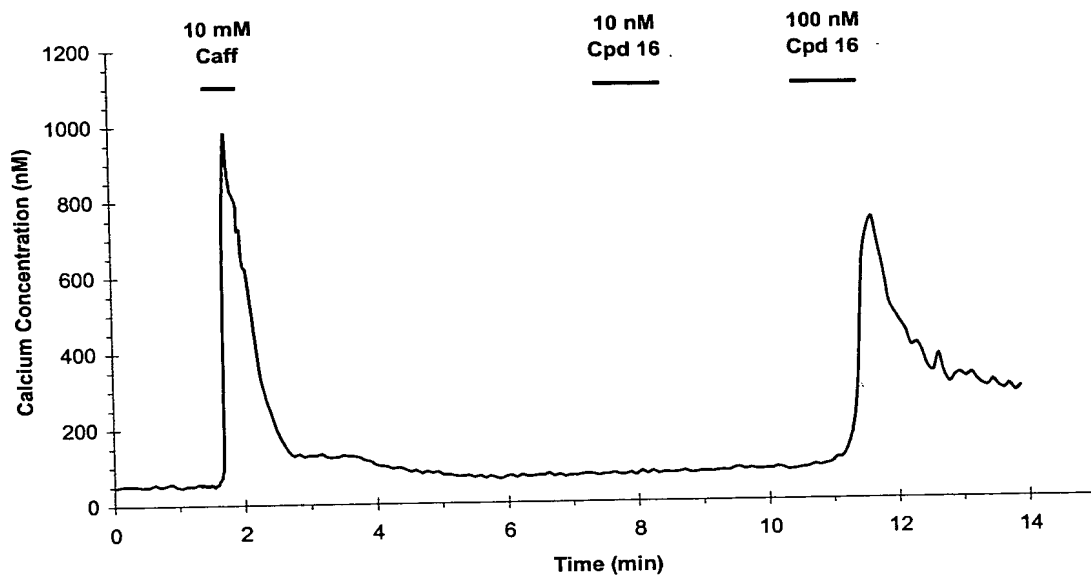


Figure 4

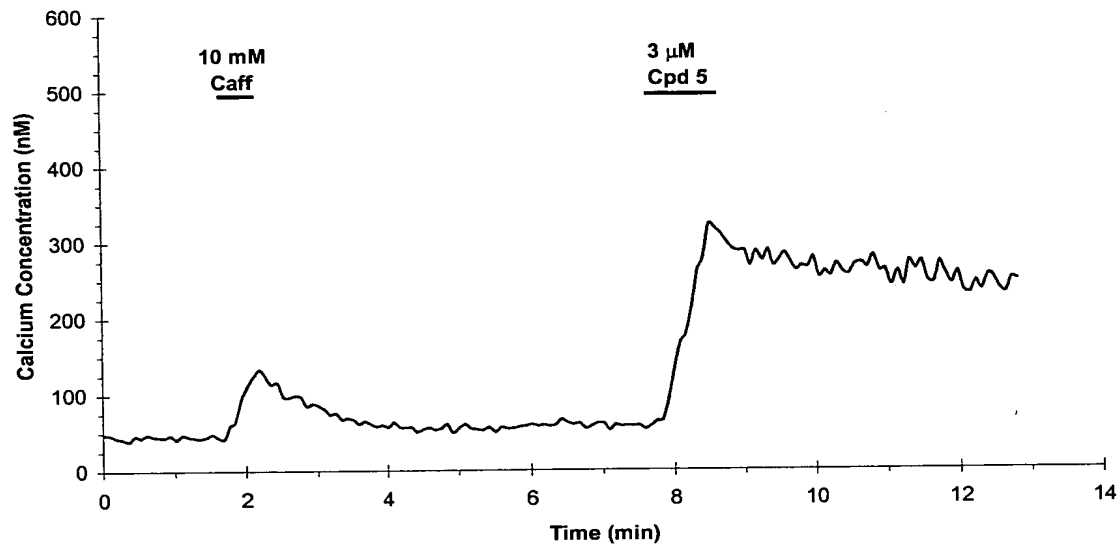


Figure 5

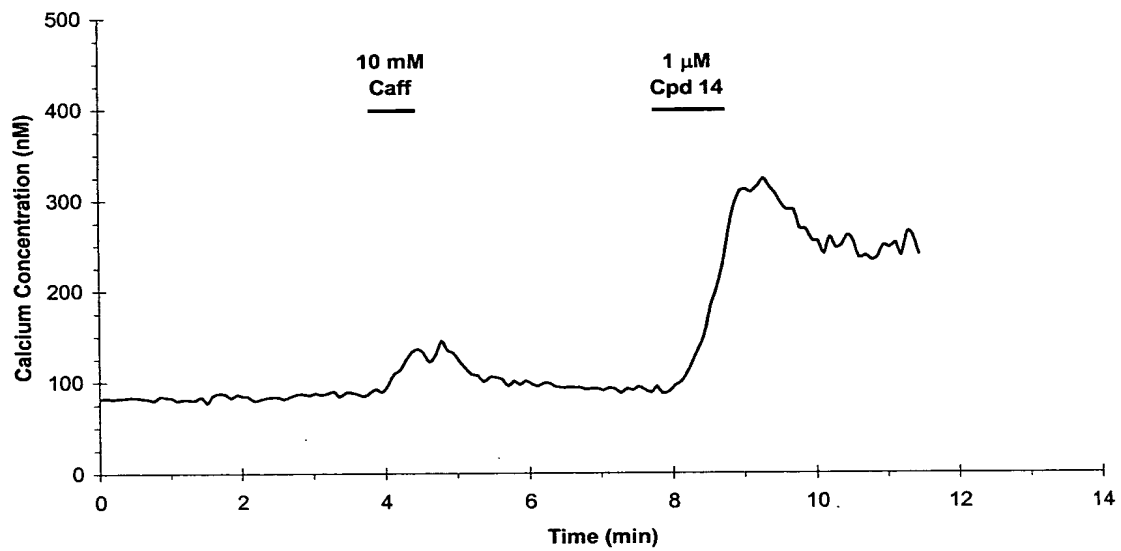


Figure 6

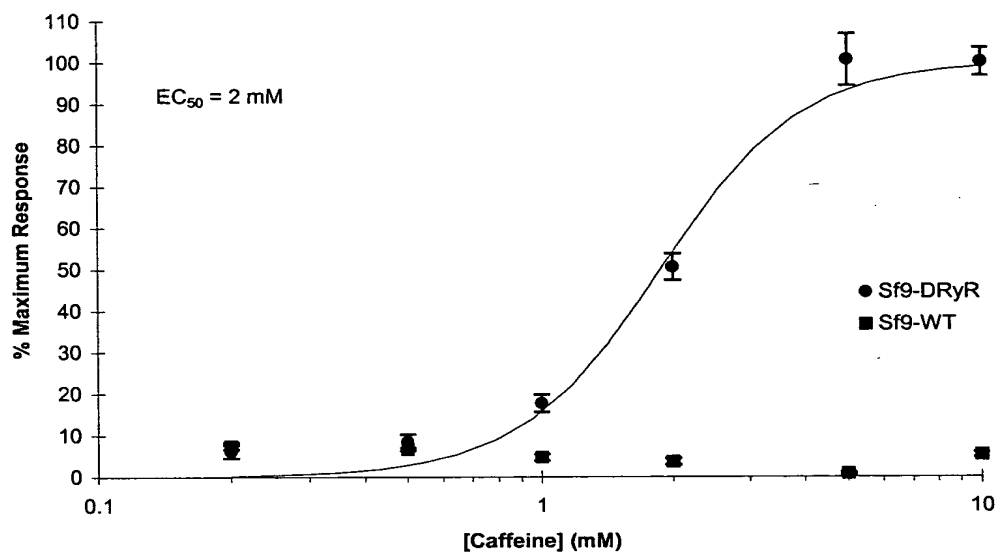


Figure 7

